

HERD HEALTH IMPROVEMENT MANUAL

VIKINGGENETICS SIRE DIRECTORY



2014

Viking Genetics welcomes 2014

OUR MISSION FOR AUSTRALIA: To provide Sires to the Australian Dairy Industry that breed healthy, profitable cows with sound functional type to generate maximum profit for dairy farmers.

VIKING GENETICS CORE VALUES:

- Customer orientated
- Trustworthy
- Focus on quality
- Ambitious

We don't take the above description of Viking Genetics lightly; this is what we stand for and helps us deliver the vision of "adding value every day". At Viking we are about delivering a "what's in it for me" approach.

Do you want healthy cows that have high production with positive milk and components?

Do you want cows with strong feet and legs and sound udder conformation?

Do you want the "invisible cow" that gives you no trouble, is in and out of the shed with no fuss, and veterinary costs kept to a minimum?

Do you want to have cows that calve easily, have plenty of resilience and vigour and handle weather extremes with improved tolerance?

Do you want calves that are quick to respond when born and have strong growth rates when you put them into your calf rearing programmes?

If you have answered **YES** to these things then that's our "what's in it for me" concept when using Viking Genetics and that defines our new slogan "adding value every day".

GENOMIC TEAMS FOR 2014 – We offer strong genomic teams this year. The Viking farmers are now using more genomic doses than proven, simply because the average result when using a team of genomic sires is very successful. Therefore we are offering the same access here as well, from the very best of the genomic (genvik plus) sires.

2014 has an air of positivity for the dairy industry and we hope we can all enjoy a progressive and successful year together.

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All prices quoted are exclusive of GST and are subject to change at our discretion.

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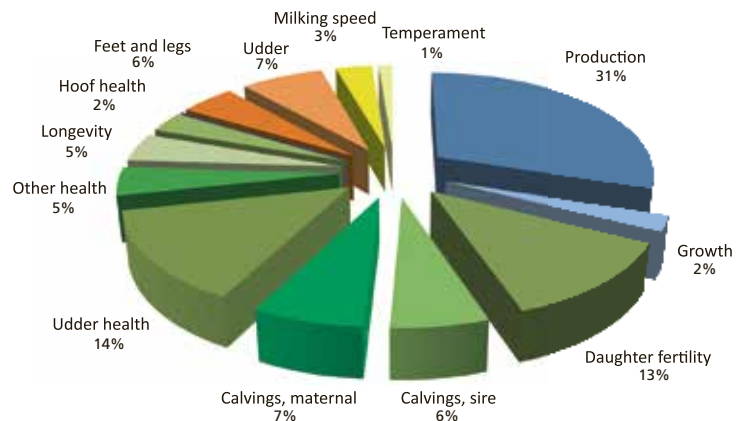
NTM – Nordic Total Merit

What is NTM?

NTM (Nordic Total Merit) is the most complete total merit index in the world. NTM consists of more than 40 subtraits combined into 12 main traits as shown in the right figure.

When you use NTM as selection criteria, you obtain positive progress for all traits of economic importance in the dairy cattle industry. You obtain the highest progress from the “most expensive traits” such as fat and protein yield and health traits as shown in the figure to the right.

Longevity index and production index have the highest correlation of all traits to the NTM, showing that the NTM is optimized to produce long living and high producing cows.



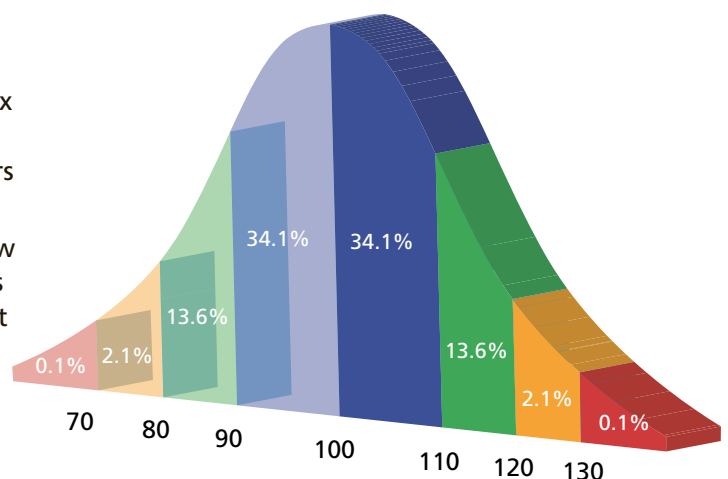
Weight of main traits in NTM for VikingHolstein
(Similar for VikingReds and Jerseys)

How are the indexes in NTM expressed?

EBVs of all animals are adjusted in such a way that animals in the base population have an average index of 100. For all traits a rolling base consisting of cows from Denmark, Sweden and Finland that are 3-5 years of age at the date of publication is applied.

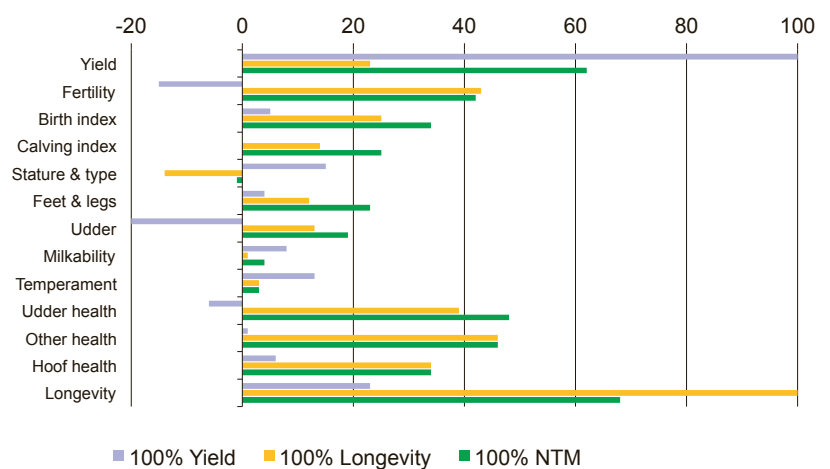
The Standard Deviation is a statistic that tells you how widely spread from the average the scores of all bulls are for any particular trait. The bell curve shows what each standard deviation represents.

One standard deviation (10 units) away from the mean in either direction (the purple area) accounts for about 68 % of the bulls.



The power of breeding for NTM

The NTM vs yield and longevity graph shows that if you use NTM for selection you will improve in all traits. Selection on yield only, you will not make gains in all traits eg udder health and daughter fertility. Selection for longevity only will decrease gains in yield, stature and body.



74%

Non Return Rate (NRR)

This is a Scandinavian ranking. Each sire has a semen fertility score. In the Viking population they rate a bull with a non return rate by day 56 after first service. It is very simple as it is expressed by the percentage (%) in calf at day 56. If a sire is at 50% he is under observation, if a bull is below 45%, semen use will stop.



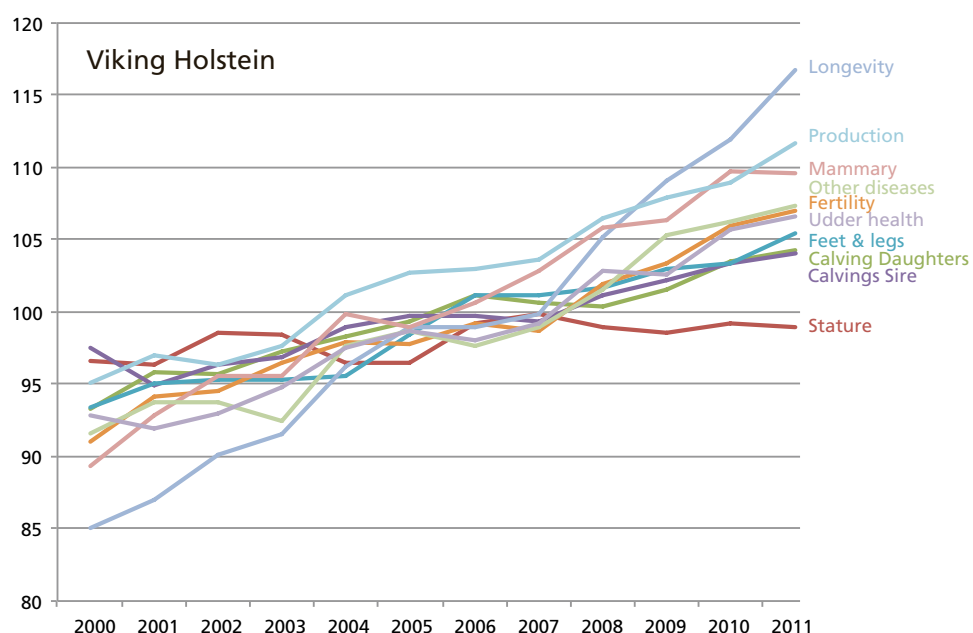
Good bulls guide symbol

When you see this icon you can be assured that the bull meets the requirements of the Good Bulls Guide.



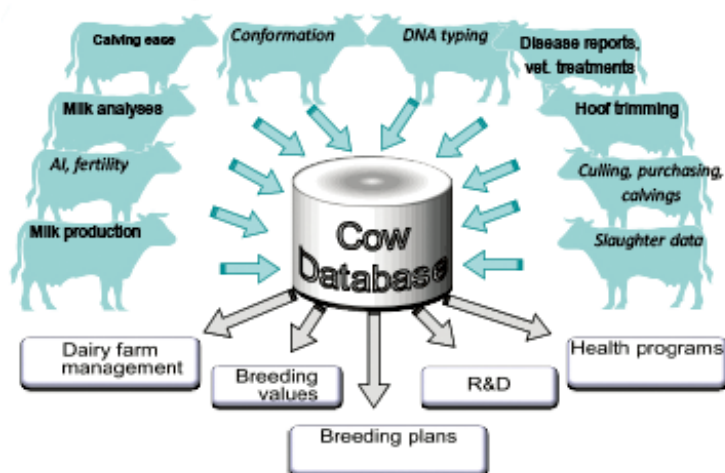
NTM – Steadily improves all important traits

The cow population in Denmark, Finland and Sweden is unique in that daughter fertility and the other very important traits have been increasing along with production.



Trusted results through ONE database

- ✓ More than 90% of all registered dairy cows in milk recording (MR)
- ✓ 88% Use of A.I.
- ✓ 90% of all cows in MR contribute with registration of Health
- ✓ 90% of all cows in MR contribute with fertility data
- ✓ 90% of all cows in MR contribute to information about size of calves, calf survival and calving ease
- ✓ 88% of farms use Insemination plan
- ✓ 200,000 cows classified by classifiers every year in DSF



You will never be first following footsteps of others!

In VikingGenetics we have been focusing on health traits since 1985, which is longer than anybody else in the world! We have always believed that a healthy cow is an economic cow for the farmer, a cow that is high producing, gets in calf, has easy calving's, stays healthy and has a functional conformation.

In Scandinavia we are lucky because we have a registration system that is unique. All reports from the field such as veterinarians, hoof trimmers, technicians, classifiers etc. about the cows go into the same database.

This is unique, and makes our breeding values very accurate and precise! Daughter groups are also big, from 150-200 daughters, which give us breeding values with high reliability, also on the health traits!

NTM – Nordic Total Merit

In Scandinavia we use an index called NTM, which is a combined index of 13 different traits which all have an economic impact for the dairyfarmer. Today 50% of the weight in NTM is on health traits, 30 % on production and 20% on conformation. The 13 different traits in NTM are itself combined of many subindeces.

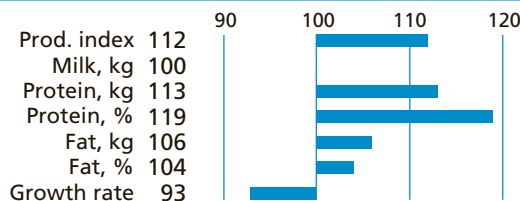
NTM have an average of 0 and standard deviation is 10 units. Bulls with +20 and above in NTM and +120 and above in individual trait are 2 standard deviations better the average!

Traits included in NTM and their weights:

	Holstein	RDC	Jersey
Prod. index	0.75	0.92	0.87
Growth	0.06	-	-
Daughter fertility	0.31	0.26	0.20
Calving sire	0.15	0.14	0.06
Calving daughters	0.17	0.12	0.06
Udder health	0.35	0.32	0.44
Other diseases	0.11	0.12	0.04
Longevity	0.11	0.07	0.08
Hoof health	0.08	0.05	0.05
Milking speed	0.08	0.10	0.10
Temperament	0.03	0.03	0.03
Feet & Legs	0.12	0.09	0.04
Udder	0.25	0.32	0.26

NTM calculation example VH Basten

PRODUCTION TRAITS REL 95% DTRS/HERDS 212/164



Deviation x economic weight

$$12 \times 0.75 =$$

Contribution to NTM

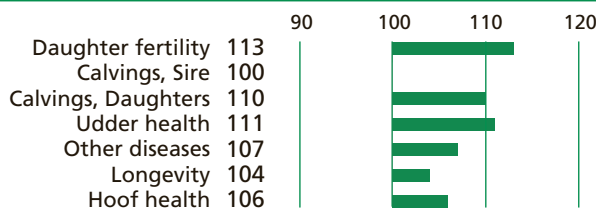
$$9.00$$

30%

$$-7 \times 0.06 =$$

$$-0.42$$

HEALTH TRAITS REL 80%



$$13 \times 0.31 =$$

$$4.03$$

$$0 \times 0.15 =$$

$$0$$

$$10 \times 0.17 =$$

$$1.70$$

$$11 \times 0.35 =$$

$$3.85$$

$$7 \times 0.11 =$$

$$0.77$$

$$4 \times 0.11 =$$

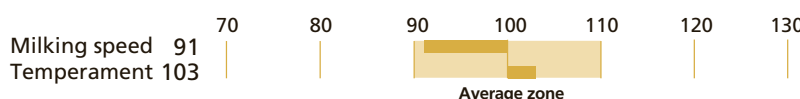
$$0.44$$

$$6 \times 0.08 =$$

$$0.48$$

50%

CONFORMATION/MANAGEMENT TRAITS NO. OF DTRS 134



$$-9 \times 0.08 =$$

$$-0.72$$

$$3 \times 0.03 =$$

$$0.09$$

20%

$$4 \times 0 =$$

$$0$$

$$1 \times 0.12 =$$

$$0.12$$

$$25 \times 0.25 =$$

$$6.25$$

TOTAL

Body 104

Feet&legs 101

Udder 125

Total NTM = 26

**NTM
+26**

NTM identifies the "real

Ränneslöv

Ränneslöv

HOL 45683

aAa: 246135

Kappa Casein: AB

S: 90239 ADDISON

MGS: 90021 FATAL *BL

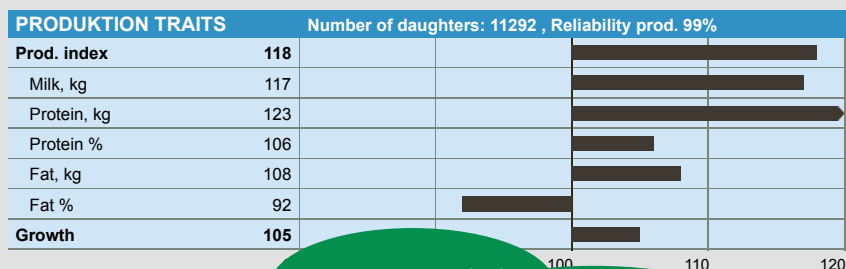
PGS: 99312 MOUNTAIN

GMGS: 99405 DANNIX

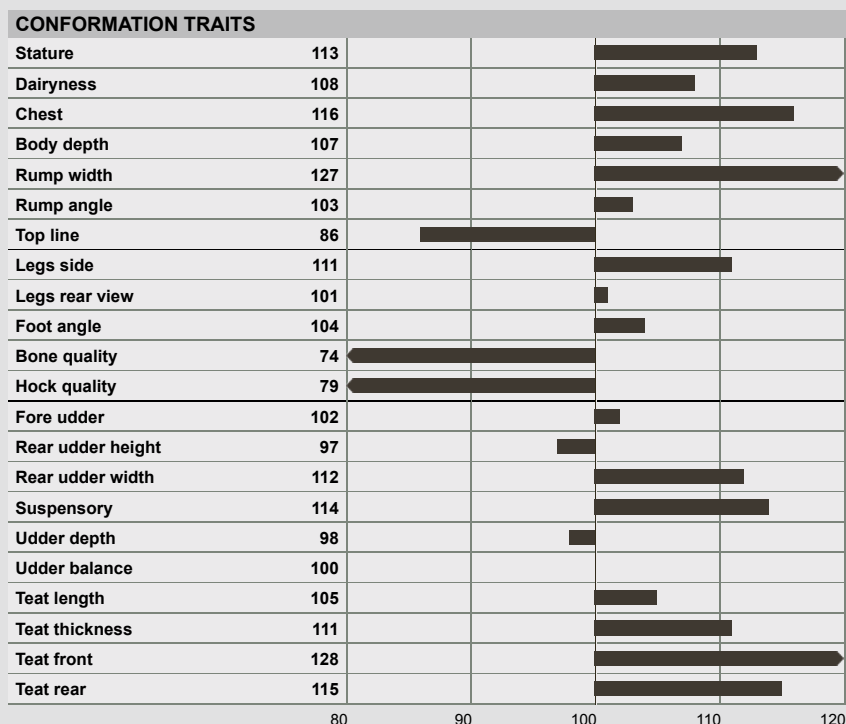
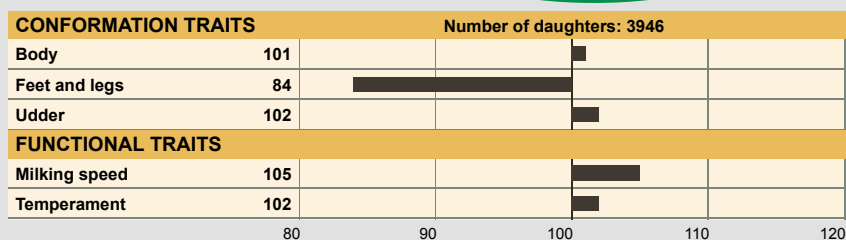
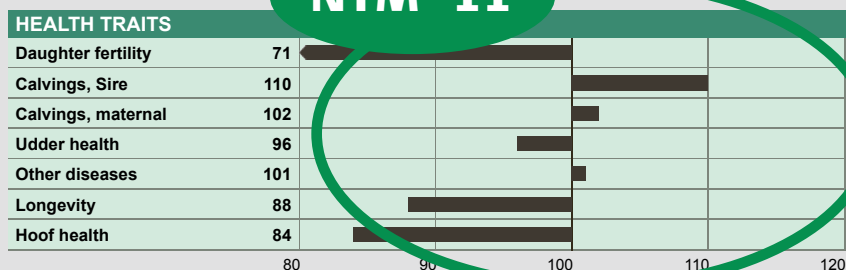
+2

Born 18-10-2000

Breeder: Gunnarsson Lars-Inge, Vårestorp 70, Laholm



NTM -11



Breeding values are estimated 02-02-2014



Ränneslöv, NTM +2



VH Basten, NTM +26

Ränneslöv and VH Basten are two Viking sires similar for production and type but with big differences in their health profiles. VH Basten gains 11 NTM points on health traits above average while Ranneslov loses 11 NTM points below average.

This makes the difference of 22 NTM points between the two sires. This converts to \$336* more profit from a VH Basten daughter per lactation compared to a Ranneslov daughter on health alone. In an average herd situation of 300 cows that is a difference of \$100,800.00* (one hundred thousand and eight hundred dollars) per annum between the two sires daughter groups! Now that's adding value every day.

*figures converted from Euro to AUD on 1/3/2014 based on Nordic dairying situations.

cost" of poor health!

VH Basten

+26

HOL 253139

aAa: 351426
Kappa Casein:

S: 247111 D BANKER
MGS: 237273 T LAMBADA

PGS: 238068 V BOJER
GMGS: 232851 T FUNKIS

Born 05-12-2008

Breeder: Ulrik Langballe, , Snedsted

PRODUKTION TRAITS		Number of daughters: 212 , Reliability prod. 95%			
Prod. index	112				
Milk, kg	100				
Protein, kg	113				
Protein %	119				
Fat, kg	106				
Fat %	104				
Growth	93				

HEALTH TRAITS		Number of daughters: 212 , Reliability prod. 95%			
Daughter fertility	113				
Calvings, Sire	100				
Calvings, maternal	110				
Udder health	111				
Other diseases	107				
Longevity	104				
Hoof health	106				

CONFORMATION TRAITS		Number of daughters: 134			
Body	104				
Feet and legs	101				
Udder	125				
FUNCTIONAL TRAITS					
Milking speed	91				
Temperament	103				

CONFORMATION TRAITS					
Stature	110				
Dairyness	99				
Chest	107				
Body depth	101				
Rump width	115				
Rump angle	113				
Top line	113				
Legs side	106				
Legs rear view	109				
Foot angle	87				
Bone quality	100				
Hock quality	103				
Fore udder	117				
Rear udder height	123				
Rear udder width	111				
Suspensory	106				
Udder depth	120				
Udder balance	115				
Teat length	94				
Teat thickness	96				
Teat front	113				
Teat rear	97				

An explanation of what is included in each trait

Daughter fertility. The index for fertility describes the genetic ability of the bulls' daughters to start or resume breeding after calving, to show oestrus and to conceive at inseminations. In the breeding value for fertility the following fertility traits are considered for heifers and cows in the first three lactations: Total number of inseminations (heifers, 1-3 lact cows). Number of days from calving to first insemination (cows). Number of days from first to last insemination (heifers, 1-3 lact cows). Non-return rate (heifers, 1-3 lact cows) at 56 days after first insemination. Heat strength (heifers, 1-3 lact cows). Registrations from the technicians.

Calvings, Sire (Maiden heifers). Based on calving difficulties and number of stillborn calves from first calvers and later lactations of the sire. Information of calf size is also available from Denmark but not included in the index.

Calvings, Daughters (Maiden heifers). Expresses the ability of the bulls' daughters to give birth to a living calf at their first calving. Information of calf size is also available from Denmark but not included in the index.

Udder health. The index for udder health describes the genetic ability in resistance of the cow to mastitis. The breeding goal is to reduce the frequency of clinical mastitis. The cost of udder health issues arise from veterinarian treatments, extra work done by the farmer, and amount of milk discarded due to treatment with antibiotics. Data that is used in records on clinical mastitis and somatic cell count from 1st to 3rd lactation. Also fore udder attachment and udder depth from 1st lactation.

Other diseases. Based on diseases other than mastitis, compulsory reported by vets and culling reports from the milk recording scheme. The diseases are divided in to four different sub-indices – early and late fertility disorder, feet and leg problems and metabolic diseases – these four sub-indices are then weight together to the complete index for Other diseases.

Longevity. The index for longevity describes the genetic ability of the bull's daughters to survive. Bulls with high indexes for longevity breed daughters with a longer productive life. The breeding value for longevity is heavily influenced by fertility, udder health and other diseases, also udder conformation and feet & legs. The value of longevity is a combination of % culled in 1st, 2nd and 3rd and later lactations.

Hoof Health. The index for hoof health describes the genetic resistance of the bull's daughters to resist diseases in the claw. In NTM, we got a new breeding value, hoof health, in 2011. Hoof trimmers have reported all treatments since 2006 and introducing a new index is possible because of the good registration system we have. Correlation between hoof health and other health traits is high, showing that cows with good feet also are healthy. VikingGenetics will continue to be in the frontline when it comes to breeding healthy cows! Breeding values are calculated for seven different claw diseases. In each lactation one to three trimmings are included, and the distance between trimmings must be at least twelve weeks.

NTM +11

The best of Viking Holsteins Proven and Genomics for Australia

Holstein breeders in Australia are now able to choose from an elite line up of genomic sires from Viking. These sires have been selected to drive profit in your business. We have selected for positive milk and components with the strongest health profiles possible. Type and conformation wise, we are selecting for the medium stature and body cow with sound feet & legs and mammary. The Holstein sires are selected from a large base of over 600,000 cows in Denmark, Sweden and Finland with 90% participation in herd recording. 90% of the cows in the milk recording system contribute with health and fertility data to this unique registration system which is founded on the world's best database.



WHAT IS A GENVIK SIRE?

A Genvik sire is a sire that is selected and approved for use in a team of 175 sires annually. This team of 175 GenVik sires is selected from 3,000 young bulls that have been selected based on NTM and genomically tested. The approved team of 175 GenVik sires are then collected when they are old enough to produce semen. Then 1,500-2,000 units are used RANDOMLY over the entire Scandinavian Holstein population.

This is a great system as there is no biased use of semen and a bull's first proof has a high reliability of 100+ daughters, avoiding huge shifts in a sire's long term proof.

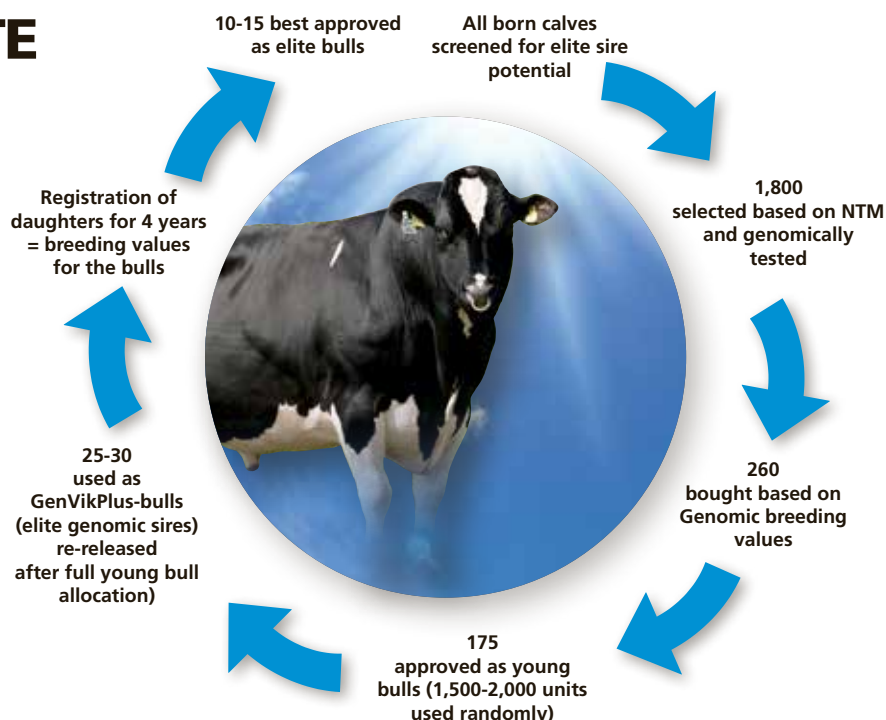


WHAT IS A GENVIKPLUS SIRE?

A GenVikPlus (GVP) sire is the best 15% of GenVik young sires that are being put back in service after semen from the whole test team has been used (approximately 25-30 sires from the initial team of 175). GVP sires proofs change faster than daughter proven proofs as reliability is lower but if you use them as PACK (use several sires) you spread the risk and get at least 50% HIGHER GENETIC PROGRESS than if you use daughter proven sires. Eg if the average proofs for a daughter proven team in a year have a NTM of +16, then the average of the GenVikPlus team will have a NTM of +24, resulting in greater profit to the farmer at the highest level possible.

This is why we promote the use of a GenVikPlus pack, to spread the risk and improve the average result. You should not fall in love with one bull as it can be like falling in love with a woman (or man), if you

FROM CALF TO ELITE PROVEN NTM SIRE – MANY STEPS OF SELECTION





choose the wrong one the future can look dark!
 Holstein breeders in Scandinavia have EMBRACED
 GENOMIC SIRES because 'it just works'. 20% of semen
 used is genomic young sires, 65% is GenVikPlus sires and
 15% is daughter proven so the total amount of genomic
 sires used on average in Holstein herds is 80%. The trend
 of genomic usage is growing stronger each year with
 farmers using ever increasing numbers and some even
 100% as the reliability of genomics is rapidly increasing.

*"GenVikPlus bulls are the top bulls of
 the future, if you want to be in the
 top use GenVikPlus sires"*
Jakob Voergaard, Sire analyst, VG.

PURCHASE GENOMIC SIRES INDIVIDUALLY OR SAVE \$ WITH OUR Great Pack Deals:

PACK 1

Purchase 25 straws
 each of at least 4
 Genomic Sires to
 receive the PACK price
 of \$20 +GST per dose.

PACK 2

Purchase 20 straws
 each of at least 3
 Genomic Sires to
 receive PACK price
 of \$22 +GST per dose





A2/A2

VH Strong

RRP
\$30.00
+ GST

- High production and udder health
- Lowers cell count and less mastitis treatments
- High ranking sire (APR 266, NTM +26)

NTM +26
+\$398 more profit



73%

NRR after day 56, see page 3

NEW!



Stol Joc / O-Man / D L Aaron

Herdbook
DENMARK
253208

Bull ID
VikHStrong
Nasis ID
89FFF02



Nordic Breeding values feb 2014
100 = Breed average

▶▶▶ For key explanations and the value of +10 units (110), see page 24

PRODUCTION TRAITS		REL 94%	DTRS/HERDS		205/165
		90	100	110	120
Prod. index	123				
Milk, kg	109				
Protein, kg	123				
Protein, %	119				
Fat, kg	116				
Fat, %	105				
Growth rate	118				

HEALTH TRAITS		REL 78%			
		90	100	110	120
Daughter fertility	97				
Calvings, Sire	104				
Calvings, Daughters	97				
Udder health	117				
Other diseases	98				
Longevity	105				
Hoof health	101				

CONFORMATION/MANAGEMENT TRAITS		NO. OF DTRS		128				
		70	80	90	100	110	120	130
Milking speed	105							
Temperament	104							

Average zone

TOTAL Body 93 Feet&legs 110 Udder 108

Stature	108 tall	Fore udder	104 strong
Dairyness	96 strong	Rear udder height	105 high
Chest width	123 wide	Rear udder width	114 wide
Body depth	106 deep	Suspensory ligam.	100 strong
Rump width	109 wide	Udder depth	106 shallow
Rump angle*	116 low pins	Udder balance	103 high rear
Top line	96 weak	Teat length	95 short
Legs side	97 posty	Teat thickness	102 thick
Legs rear view	115 parallel	Teat placem. front	113 close
Foot angle	101 steep	Teat placem. rear	101 close

*90 = level. Bold numbers = more than 1 standard deviation from average.



DAM PRODUCTION

Tir An O Man Geneve
VG 86
1 Lact
12,278 kg M
4.44% F / 545 kg F
3.57% P / 438 kg P

ABV(i) – APRIL 2014

APR	266	F%	-0.06
Milk	727	Rel% ASI	68
P kg	29	MS	100
F kg	27	Temp	101
ASI	186	Mammary	104
P%	0.19	Fertility	104

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows		●	
Maiden Heifers			●

*When money talks,
we choose*

VIKINGGENETICS
adding value every day



VH Basten

RRP
\$30.00
+ GST

- Wonderful health profile
- Superb udders with ideal teat placement
- Outcross sire with high NTM and APR

NTM +26
+\$398 more profit



75%

NRR after day 56, see page 3

NEW!



D Banker / T Lambada / T Funkis

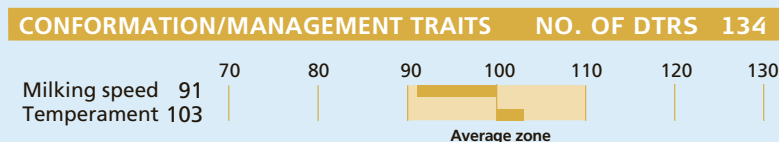
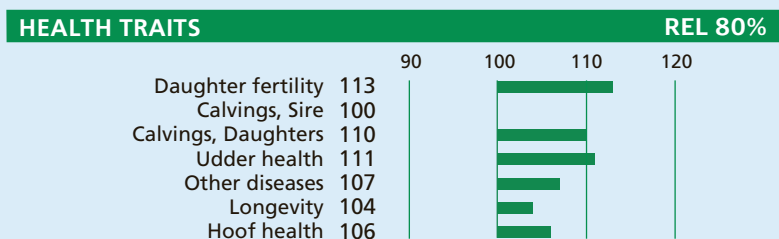
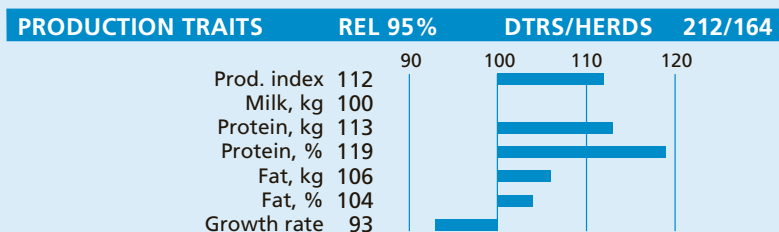
Herdbook
DENMARK
253139

Bull ID
VikHBasten
Nasis ID
89FFE05



Nordic Breeding values feb 2014
100 = Breed average

▶▶▶ For key explanations and the value of +10 units (110), see page 24



TOTAL Body 104 Feet&legs 101 Udder 125

Stature	110	tall	Fore udder	117	strong
Dairyness	99	strong	Rear udder height	123	high
Chest width	107	wide	Rear udder width	111	wide
Body depth	101	deep	Suspensory ligam.	106	strong
Rump width	115	wide	Udder depth	120	shallow
Rump angle*	113	low pins	Udder balance	115	high rear
Top line	113	strong	Teat length	94	short
Legs side	106	sickled	Teat thickness	96	thin
Legs rear view	109	parallel	Teat placem. front	113	close
Foot angle	87	low	Teat placem. rear	97	wide

*90 = level. Bold numbers = more than 1 standard deviation from average.

DAM PRODUCTION

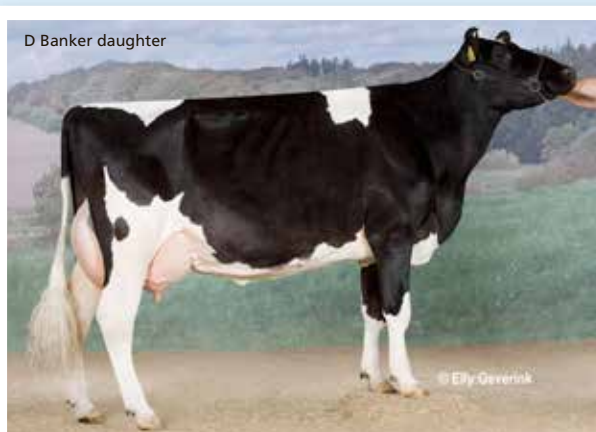
Cow 2193
VG 87
6 Lact
12,833 kg M
3.79% F / 486 kg F
3.27% P / 420 kg P

ABV(i) – APRIL 2014

APR	216	F%	-0.08
Milk	427	Rel% ASI	66
P kg	18	MS	97
F kg	12	Temp	100
ASI	109	Mammary	106
P%	0.12	Fertility	108

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows		●	
Maiden Heifers			●



*When money talks,
we choose*

VIKINGGENETICS^R
adding value every day

A2/A2

Pack discounts,
see page 9SEXED
SEMEN
\$60.00
+ GSTRRP
\$26.00
+ GST

VH Miracle

- Medium stature cows with quality udders
- Strong "engine room" production and health traits, the profit drivers
- High functional traits



Massey / Roumare / VAR Calano

Herdbook
DENMARK
254418Bull ID
VikVHMiracle
Nasis ID
89FFG03

76%

NRR after
day 56,
see page 3

NTM +40 +\$612 more profit

DAM PRODUCTION

Cow 3884
2 lact
14,392 kg
4.05% F / 584 kg F
3.30% P / 474 kg P



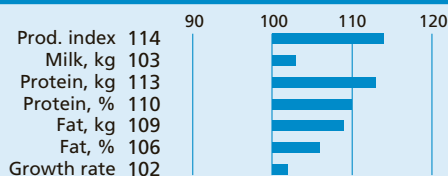
Nordic Breeding values feb 2014
100 = Breed average

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

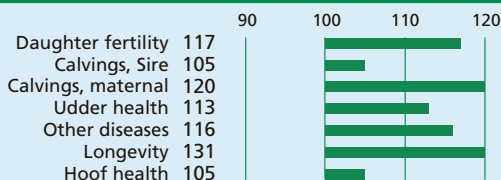
	Easy	Average	Harder
Cows	●		
Maiden Heifers		●	

▶▶▶ For key explanations and the value of +10 units (110), see page 24

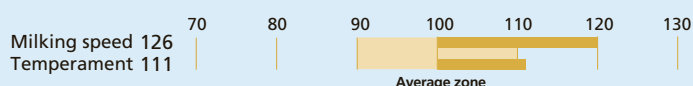
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION/MANAGEMENT TRAITS



TOTAL Body 106 Feet&legs 96 Udder 131

Stature	105	tall	Fore udder	117	strong
Dairyness	103	angular	Rear udder height	112	high
Chest width	97	narrow	Rear udder width	104	wide
Body depth	92	shallow	Suspensory ligam.	104	strong
Rump width	94	narrow	Udder depth	124	shallow
Rump angle*	103	low pins	Udder balance	108	high rear
Top line	93	weak	Teat length	95	short
Legs side	93	posty	Teat thickness	91	thin
Legs rear view	100	parallel	Teat placem. front	125	close
Foot angle	94	low	Teat placem. rear	112	close

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



adding value every day

Pack discounts,
see page 9RRP
\$26.00
+ GST

VH Sprite

- The young sire that has it all!
- A very high "profit driver"
- Health, production, conformation and functionality



Sterngold / Rakuuna / Ramos

Herdbook
SWEDEN
48982Bull ID
VikHSprite
Nasis ID
87FFJ04

69%

NRR after
day 56,
see page 3

NTM +33 +\$505 more profit

DAM PRODUCTION

1143 Asta
1 lact
9,159 kg
4.5% F / 412 kg F
3.4% P / 311 kg P



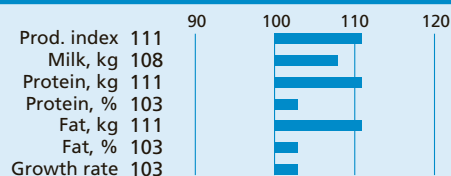
Nordic Breeding values feb 2014
100 = Breed average

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

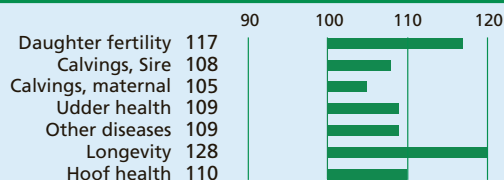
	Easy	Average	Harder
Cows	●		
Maiden Heifers		●	

▶▶▶ For key explanations and the value of +10 units (110), see page 24

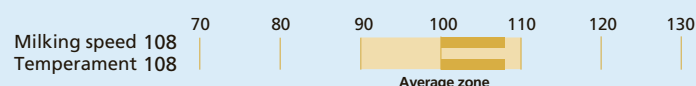
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION/MANAGEMENT TRAITS



TOTAL Body 95 Feet&legs 127 Udder 122

Stature	100	tall	Fore udder	112	strong
Dairyness	93	strong	Rear udder height	125	high
Chest width	107	wide	Rear udder width	110	wide
Body depth	95	shallow	Suspensory ligam.	107	strong
Rump width	86	narrow	Udder depth	118	shallow
Rump angle*	109	low pins	Udder balance	115	high rear
Top line	96	weak	Teat length	103	long
Legs side	90	posty	Teat thickness	100	thick
Legs rear view	134	parallel	Teat placem. front	104	close
Foot angle	119	steep	Teat placem. rear	103	close

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



adding value every day

NTM

– proven in practice

**318 kg more milk, 2% less mastitis,
5 days shorter calving intervals
– all with no extra effort!**

These are just some of the impressive results from a study in 60 Holstein herds in Denmark. The results show the differences in first lactation if you compare females above NTM +12 with females below NTM +12. Expect similar effects in your herd just by using sires with high NTM from VikingGenetics.

Read the full story on vikinggenetics.com – or just pick one of these three popular sires and see for yourself.

NTM

VH Grafit +31

(B Goldwyn / Oman Justi)

VH Strong +26

(Stol Joc / O-Man)

VH Basten +26

(D Banker / T Lambada)

VH Stanley

- Focus on the "engine room" production and health
 - Maintaining the medium body
 - Improvements in feet and legs and udders



Sterngold / O-Man / TP Ekerod ET

Herdbook
SWEDEN
48986

Bull ID
VikH-
Stanley

Nasis ID
87FFJ03



68%

NRR after
day 56,
see page 3



NTM +32 +\$490 more profit

DAM PRODUCTION

697 Stjärna
2 lact
11,691 kg
3.8% F / 444 kg F
3.3% P / 386 kg P



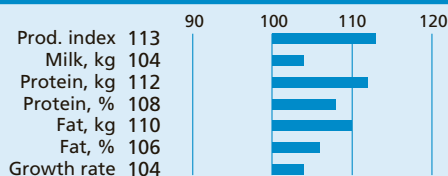
Nordic Breeding values feb 2014
100 = Breed average

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

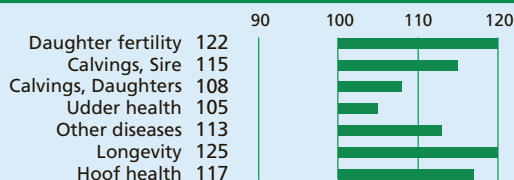
	Easy	Average	Harder
Cows	●		
Maiden Heifers		●	

►►► For key explanations and the value of +10 units (110), see page 24

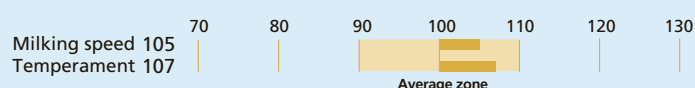
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION/MANAGEMENT TRAITS



TOTAL Body 93 Feet&legs 104 Udder 114

Stature	103 tall	Fore udder	108 strong
Dairyness	99 strong	Rear udder height	106 high
Chest width	105 wide	Rear udder width	106 wide
Body depth	97 shallow	Suspensory ligam.	100 strong
Rump width	93 narrow	Udder depth	115 shallow
Rump angle*	102 low pins	Udder balance	103 high rear
Top line	82 weak	Teat length	103 long
Legs side	93 posty	Teat thickness	97 thin
Legs rear view	112 parallel	Teat placem. front	101 close
Foot angle	94 low	Teat placem. rear	105 close

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



DRH Jerut

- Calving ease Red Holstein sire
- Suitable for use on maiden heifers
- Outcross sire with nice udders



Jerudo / DRK Utzon / DRK Uran

Herdbook
DENMARK
44828

Bull ID
VikJerut

Nasis ID
89FFF01



74%

NRR after
day 56,
see page 3



NTM +31 +\$474 more profit

DAM PRODUCTION

Cow 1403
VG86
4 lact
9,576 kg
4.74% F / 454 kg F
3.64% P / 348 kg P



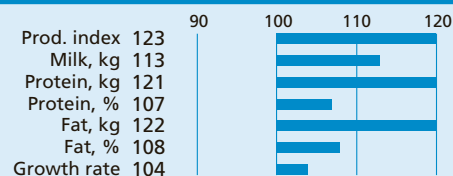
Nordic Breeding values feb 2014
100 = Breed average

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

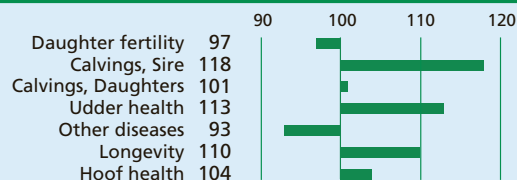
	Easy	Average	Harder
Cows	●		
Maiden Heifers	●		

►►► For key explanations and the value of +10 units (110), see page 24

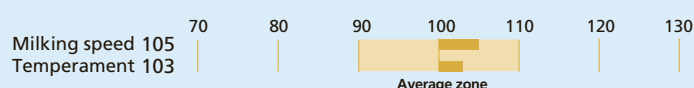
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION/MANAGEMENT TRAITS



TOTAL Body 107 Feet&legs 106 Udder 117

Stature	110 tall	Fore udder	108 strong
Dairyness	104 angular	Rear udder height	112 high
Chest width	99 narrow	Rear udder width	104 wide
Body depth	96 shallow	Suspensory ligam.	101 strong
Rump width	94 narrow	Udder depth	115 shallow
Rump angle*	102 low pins	Udder balance	103 high rear
Top line	100 strong	Teat length	90 short
Legs side	96 posty	Teat thickness	72 thin
Legs rear view	109 parallel	Teat placem. front	98 wide
Foot angle	105 steep	Teat placem. rear	95 wide

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



VH Oneal P

- Leaves 50% polled progeny
- Another strong engine room (production and health)
 - High protein production, profitable low maintenance cows



VH OVE P / STAME ET / V EXCES

Herdbook
DENMARK
255423

Bull ID
VikOnealP

Nasis ID
89FFH03



71%

NRR after
day 56,
see page 3



NTM +27 +\$413 more profit

DAM PRODUCTION

Cow 2227
VG85
2 lact
10,078 kg
4.25% F / 428 kg F
3.39% P / 342 kg P



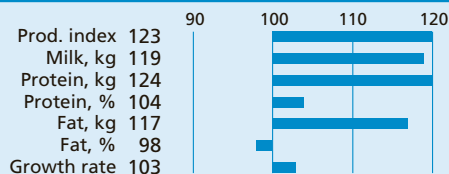
Nordic Breeding values feb 2014
100 = Breed average

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

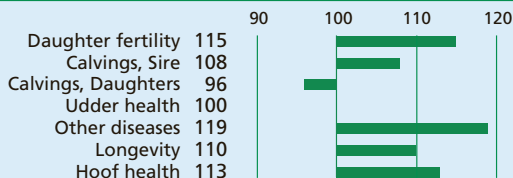
	Easy	Average	Harder
Cows	●		
Maiden Heifers		●	

▶▶▶ For key explanations and the value of +10 units (110), see page 24

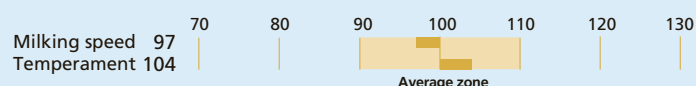
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION/MANAGEMENT TRAITS



TOTAL Body 95 Feet&legs 105 Udder 99

Stature	96 short	Fore udder	98 loose
Dairyness	105 angular	Rear udder height	111 high
Chest width	95 narrow	Rear udder width	107 wide
Body depth	103 deep	Suspensory ligam.	96 weak
Rump width	88 narrow	Udder depth	95 deep
Rump angle*	93 low pins	Udder balance	97 low rear
Top line	100 strong	Teat length	96 short
Legs side	103 sickled	Teat thickness	109 thick
Legs rear view	104 parallel	Teat placem. front	101 close
Foot angle	106 steep	Teat placem. rear	94 wide

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



adding value every day

VH Rebound

- Superb health indexes, fertility and longevity
- Outcross bloodlines with Rakuuna and D Banker
 - Medium size cows, good udders together with a strong "engine room" (production and health)



VH Robot / D Banker / Mascol

Herdbook
DENMARK
255623

Bull ID
VikH-Rebound

Nasis ID
89FFJ01



68%

NRR after
day 56,
see page 3



NTM +26 +\$398 more profit

DAM PRODUCTION

Cow 2685
3 lact
11,133 kg
3.76% F / 418 kg F
3.35% P / 373 kg P



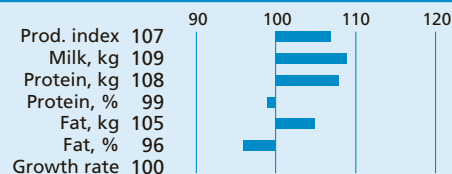
Nordic Breeding values feb 2014
100 = Breed average

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

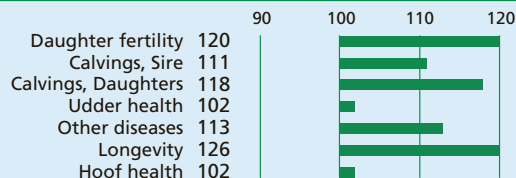
	Easy	Average	Harder
Cows	●		
Maiden Heifers		●	

▶▶▶ For key explanations and the value of +10 units (110), see page 24

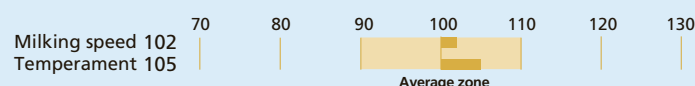
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION/MANAGEMENT TRAITS



TOTAL Body 95 Feet&legs 105 Udder 117

Stature	108 tall	Fore udder	113 strong
Dairyness	98 strong	Rear udder height	108 high
Chest width	112 wide	Rear udder width	101 wide
Body depth	104 deep	Suspensory ligam.	90 weak
Rump width	119 wide	Udder depth	114 shallow
Rump angle*	106 low pins	Udder balance	97 low rear
Top line	94 weak	Teat length	106 long
Legs side	99 postie	Teat thickness	105 thick
Legs rear view	95 hock in	Teat placem. front	90 wide
Foot angle	98 low	Teat placem. rear	88 wide

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



adding value every day

VH Obama

- Outcross bloodlines
- Strong "profit drivers", production and health traits
 - Medium size cows with ideal teat length and placement



D Orange / Mascol ET / Gul ET

Herdbook
SWEDEN
48912

Bull ID
VikVH-
Obama

Nasis ID
87FFG03

**73%**

NRR after
day 56,
see page 3



NTM +26 +\$398 more profit

DAM PRODUCTION

502 Svensta
4 lact
13,163 kg
4.1% F / 539 kg F
3.4% P / 447 kg P

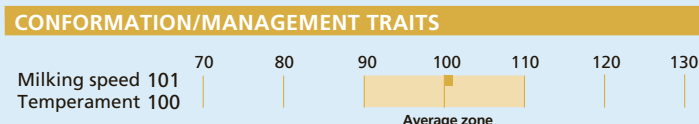
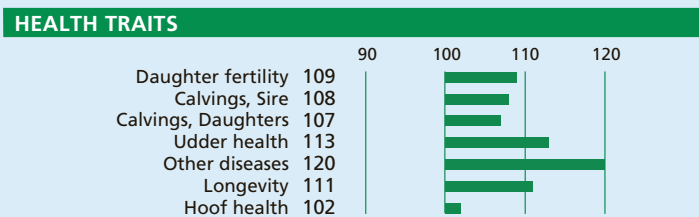
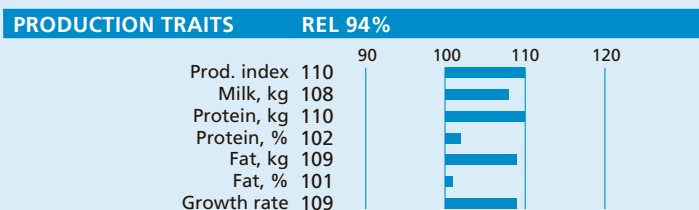


Nordic Breeding values feb 2014
100 = Breed average

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows	●		
Maiden Heifers	●		

▶▶▶ For key explanations and the value of +10 units (110), see page 24



TOTAL Body 98 Feet&legs 107 Udder 113

Stature	106 tall	Fore udder	106 strong
Dairyness	96 strong	Rear udder height	107 high
Chest width	100 wide	Rear udder width	103 wide
Body depth	96 shallow	Suspensory ligam.	106 strong
Rump width	101 wide	Udder depth	110 shallow
Rump angle*	100 low pins	Udder balance	97 low rear
Top line	101 strong	Teat length	111 long
Legs side	99 posty	Teat thickness	115 thick
Legs rear view	107 parallel	Teat placem. front	115 close
Foot angle	113 steep	Teat placem. rear	103 close

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



adding value every day

VH Melos

- For those who want the taller cows
 - Very high udders scores
- Strong udder health with longer teats



Massey / E Boliver / Die Hard

Herdbook
DENMARK
254420

Bull ID
VikMelos

Nasis ID
89FFG02

**76%**

NRR after
day 56,
see page 3



NTM +26 +\$398 more profit

DAM PRODUCTION

1658 Betty
VG85
2 lact
10,202 kg
3.72% F / 380 kg F
3.09% P / 315 kg P

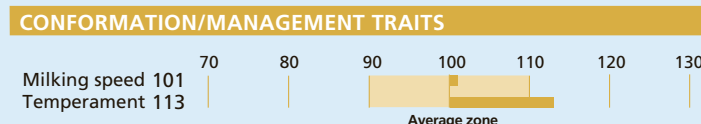
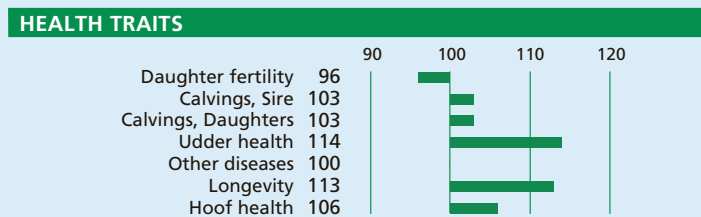
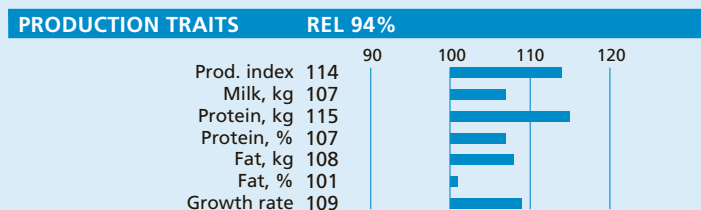


Nordic Breeding values feb 2014
100 = Breed average

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows	●		
Maiden Heifers		●	

▶▶▶ For key explanations and the value of +10 units (110), see page 24



TOTAL Body 103 Feet&legs 102 Udder 130

Stature	117 tall	Fore udder	113 strong
Dairyness	110 angular	Rear udder height	115 high
Chest width	114 wide	Rear udder width	102 wide
Body depth	114 deep	Suspensory ligam.	113 strong
Rump width	108 wide	Udder depth	116 shallow
Rump angle*	90 low pins	Udder balance	118 high rear
Top line	105 strong	Teat length	112 long
Legs side	104 sickled	Teat thickness	104 thick
Legs rear view	100 parallel	Teat placem. front	121 close
Foot angle	108 steep	Teat placem. rear	112 close

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



adding value every day



VH Grafit

RRP
\$35.00
+ GST

- High production Sire with a great health profile
 - A leading Goldwyn son worldwide
- Highly ranked in Australia (APR 266) and in Scandinavia (NTM +31)

NTM +31
+\$474 more profit



74%

NRR after day 56, see page 3

NEW!



B Goldwyn / Oman Justi / BW Marshal

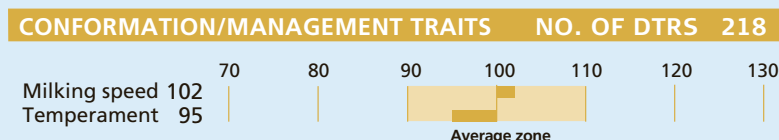
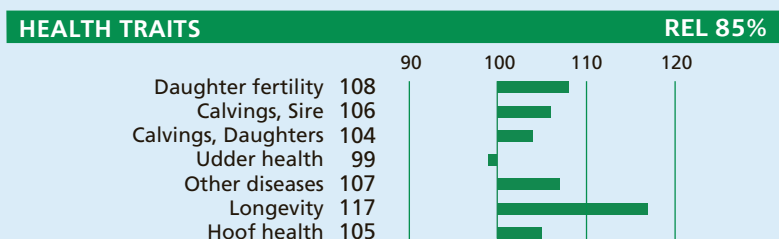
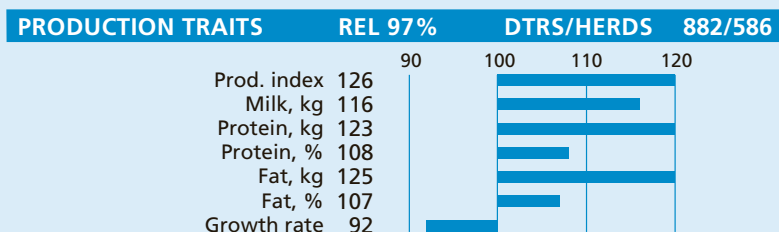
Herdbook
DENMARK
253217

Bull ID
VikHGratit
Nasis ID
89FFF05



Nordic Breeding values feb 2014
100 = Breed average

►►► For key explanations and the value of +10 units (110), see page 24



TOTAL Body 120 Feet&legs 113 Udder 116

Stature	133 tall	Fore udder	100 strong
Dairyness	123 angular	Rear udder height	115 high
Chest width	100 wide	Rear udder width	106 wide
Body depth	105 deep	Suspensory ligam.	81 weak
Rump width	100 wide	Udder depth	113 shallow
Rump angle*	104 low pins	Udder balance	92 low rear
Top line	102 strong	Teat length	103 long
Legs side	115 sickled	Teat thickness	106 thick
Legs rear view	109 parallel	Teat placem. front	91 wide
Foot angle	104 steep	Teat placem. rear	82 wide

*90 = level. Bold numbers = more than 1 standard deviation from average.



DAM PRODUCTION

Tir An O Man Neblina
VG 87
1 Lact
12,083 kg
4.17% F / 504 kg F
3.42% P / 413 kg P

ABV(i) – APRIL 2014

APR	266	F%	0
Milk	891	Rel% ASI	70
P kg	27	MS	102
F kg	38	Temp	101
ASI	171	Mammary	105
P%	0.06	Fertility	107

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows	●		
Maiden Heifers		●	



*When money talks,
we choose*

VIKINGGENETICS
adding value every day



A2/A2

VH Bento

RRP
\$25.00
+ GST

**NOW
PROVEN**

NTM +16
+\$245 more profit



74%

NRR after day 56, see page 3



D Banker / Oman Justi / T Funkis

Herdbook
DENMARK
252951

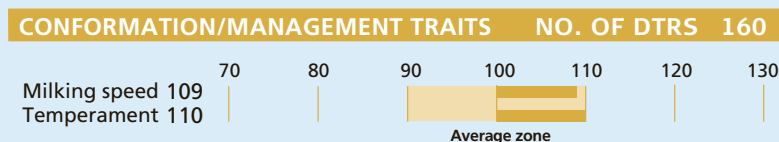
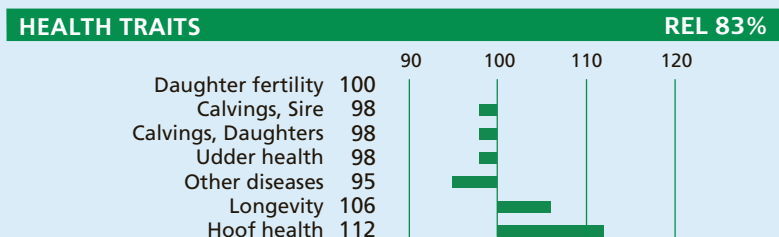
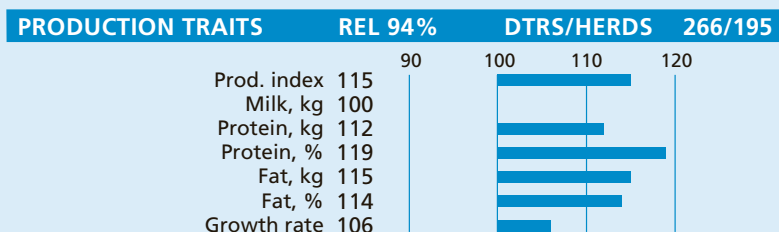
Bull ID
VikBento

Nasis ID
89FFE04



Nordic Breeding values feb 2014
100 = Breed average

▶▶▶ For key explanations and the value of +10 units (110), see page 24



TOTAL Body 114 Feet&legs 96 Udder 116

Stature	113	tall	Fore udder	119	strong
Dairyness	110	angular	Rear udder height	100	high
Chest width	116	wide	Rear udder width	104	wide
Body depth	112	deep	Suspensory ligam.	117	strong
Rump width	110	wide	Udder depth	114	shallow
Rump angle*	102	low pins	Udder balance	97	low rear
Top line	115	strong	Teat length	104	long
Legs side	103	sickled	Teat thickness	112	thick
Legs rear view	96	hock in	Teat placem. front	121	close
Foot angle	117	steep	Teat placem. rear	123	close

*90 = level. Bold numbers = more than 1 standard deviation from average.



DAM PRODUCTION

Cow 1641
2 lact
11,313 kg
4.51% F / 511 kg F
3.53% P / 399 kg P

ABV(i) – APRIL 2014

APR	211	F%	0.16
Milk	324	Rel% ASI	66
P kg	18	MS	102
F kg	25	Temp	101
ASI	133	Mammary	101
P%	0.17	Fertility	106

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows		●	
Maiden Heifers			●



*When money talks,
we choose*

VIKINGGENETICS
adding value every day



D Sol

SEXED
SEMEN
\$60.00
+ GST

RRP
\$25.00
+ GST

- Health traits growing stronger with more daughters
- Many Australian daughters coming into production 2014
- Still a premium sire for maiden heifer matings

NTM +20
+\$306 more profit



72%

NRR after day 56, see page 3



P Shottle / T Funkis / VE Otto

Herdbook
DENMARK
250354

Bull ID
VikSol

Nasis ID
89FFB03

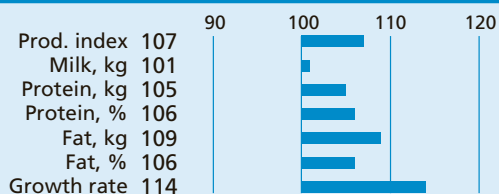
X_Y X-VIK[®]

VIKING
HOLSTEIN[®]

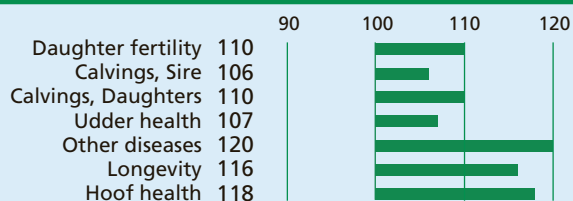
Nordic Breeding values feb 2014
100 = Breed average

▶▶▶ For key explanations and the value of +10 units (110), see page 24

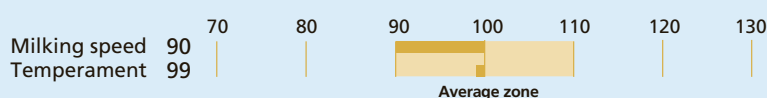
PRODUCTION TRAITS REL 99% DTRS/HERDS 2104/1086



HEALTH TRAITS REL 95%



CONFORMATION/MANAGEMENT TRAITS NO. OF DTRS 640



TOTAL Body 92 Feet&legs 107 Udder 101

Stature	95 short	Fore udder	109 strong
Dairyness	96 strong	Rear udder height	99 low
Chest width	103 wide	Rear udder width	89 narrow
Body depth	106 deep	Suspensory ligam.	94 weak
Rump width	90 narrow	Udder depth	99 deep
Rump angle*	99 low pins	Udder balance	107 high rear
Top line	82 weak	Teat length	101 long
Legs side	99 posty	Teat thickness	101 thick
Legs rear view	108 parallel	Teat placem. front	91 wide
Foot angle	106 steep	Teat placem. rear	92 wide

*90 = level. Bold numbers = more than 1 standard deviation from average.



DAM PRODUCTION

Cow 763
EX92
10 lact
11,562 kg
4.61% F / 532 kg F
3.59% P / 415 kg P

ABVg(i) – APRIL 2014

APR	168	F%	0.02
Milk	250	Rel% ASI	80%
P kg	8	MS	97
F kg	12	Temp	101
ASI	52	Mammary	97
P%	0.02	Fertility	109

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows	●		
Maiden Heifers	●		



*When money talks,
we choose*

VIKINGGENETICS[®]
adding value every day



VH Mogens

RRP
\$24.00
+ GST

- Great to use on maiden heifers, very easy calvings
- Lovely bodied medium sized cows, predominately black
- Milk and components +.21% Protein. APR 208

NTM +19
+\$291 more profit



67%

NRR after day 56, see page 3

NEW!



Mascol / O-Man / T Funkis

Herdbook
DENMARK
252020

Bull ID
VikVH-
Mogens

Nasis ID
89FFD03



Nordic Breeding values feb 2014
100 = Breed average

▶▶▶ For key explanations and the value of +10 units (110), see page 24

PRODUCTION TRAITS		REL 94%	DTRS/HERDS		622/384
		90	100	110	120
Prod. index	118				
Milk, kg	106				
Protein, kg	118				
Protein, %	117				
Fat, kg	113				
Fat, %	105				
Growth rate	114				

HEALTH TRAITS		REL 93%			
		90	100	110	120
Daughter fertility	97				
Calvings, Sire	106				
Calvings, Daughters	93				
Udder health	108				
Other diseases	106				
Longevity	108				
Hoof health	105				

CONFORMATION/MANAGEMENT TRAITS		NO. OF DTRS		274				
		70	80	90	100	110	120	130
Milking speed	110							
Temperament	102							
		Average zone						

TOTAL Body 104 Feet&legs 94 Udder 103

Stature	102	tall	Fore udder	107	strong
Dairyness	109	angular	Rear udder height	101	high
Chest width	104	wide	Rear udder width	90	narrow
Body depth	103	deep	Suspensory ligam.	98	weak
Rump width	114	wide	Udder depth	107	shallow
Rump angle*	96	low pins	Udder balance	102	high rear
Top line	91	weak	Teat length	94	short
Legs side	109	sickled	Teat thickness	103	thick
Legs rear view	91	hock in	Teat placem. front	103	close
Foot angle	107	steep	Teat placem. rear	113	close

*90 = level. Bold numbers = more than 1 standard deviation from average.



DAM PRODUCTION

Hougaard Oman Ann
3 lact
13,892 kg
3.74% F / 520 kg F
3.48% P / 483 kg P

ABV(i) – APRIL 2014

APR	208	F%	0.08
Milk	304	Rel% ASI	69
P kg	19	MS	102
F kg	18	Temp	99
ASI	138	Mammary	99
P%	0.21	Fertility	104

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows	●		
Maiden Heifers	●		

*When money talks,
we choose*

VIKINGGENETICS
adding value every day



D Ole

RRP
\$22.00
+ GST

- One of the worlds best O-man sons, 15,581 dtrs in his proof
- Lovely udders with strong feet and legs and hoof health
- Udder health and longevity, easy to manage cows

NTM +19
+\$291 more profit



72%

NRR after day 56, see page 3



Oman Justi / Jocko Besn / NJY Hubert

Herdbook
DENMARK
248715

Bull ID
VikOle

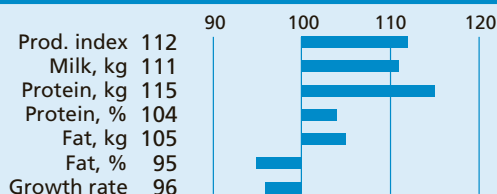
Nasis ID
89FFA05



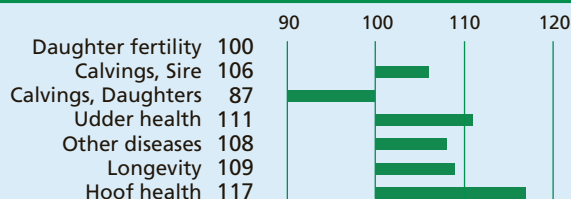
Nordic Breeding values feb 2014
100 = Breed average

▶▶▶ For key explanations and the value of +10 units (110), see page 24

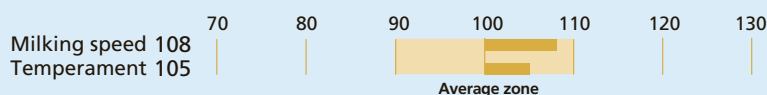
PRODUCTION TRAITS REL 99% DTRS/HERDS 15581/3808



HEALTH TRAITS REL 99%



CONFORMATION/MANAGEMENT TRAITS NO. OF DTRS 7488



TOTAL Body 107 Feet&legs 105 Udder 113

Stature	113	tall	Fore udder	116	strong
Dairyness	99	strong	Rear udder height	107	high
Chest width	110	wide	Rear udder width	99	narrow
Body depth	111	deep	Suspensory ligam.	96	weak
Rump width	110	wide	Udder depth	113	shallow
Rump angle*	108	low pins	Udder balance	107	high rear
Top line	108	strong	Teat length	99	short
Legs side	95	posty	Teat thickness	88	thin
Legs rear view	100	parallel	Teat placem. front	108	close
Foot angle	101	steep	Teat placem. rear	104	close

*90 = level. Bold numbers = more than 1 standard deviation from average.



© Elly Gevärink

DAM PRODUCTION

Cow 1729
VG86
4 lact
11,283 kg
4.19% F / 473 kg F
3.41% P / 384 kg P

ABV(i) – APRIL 2014

APR	192	F%	-0.24
Milk	611	Rel% ASI	71
P kg	18	MS	101
F kg	9	Temp	100
ASI	93	Mammary	104
P%	0.04	Fertility	104

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows	●		
Maiden Heifers		●	



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A2/A2

S Ross

RRP
\$24.00
+ GST

- The highest top ranking daughter fertility sire in the world!
 - 11,458 daughters in his proof and fertility +125
- Average stature with strength and ever increasing longevity

NTM +19
+\$291 more profit



69%

NRR after day 56, see page 3



Chassee / T Funkis / Haradskop

Herdbook
SWEDEN
48202

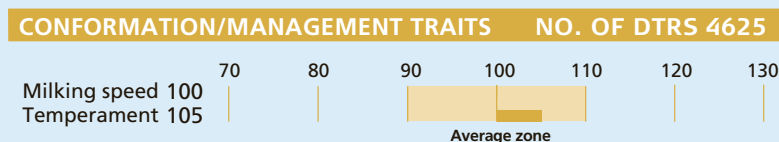
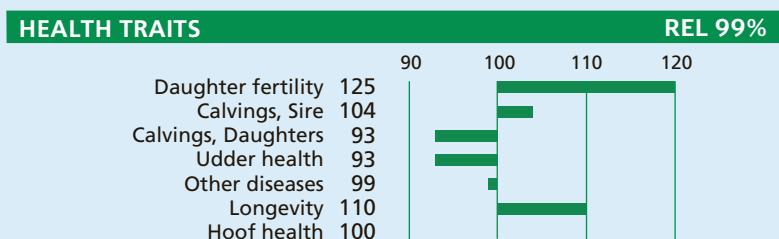
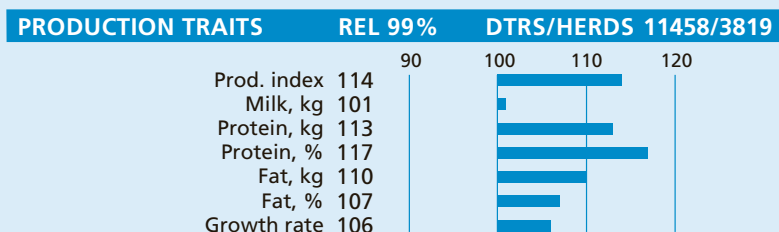
Bull ID
VikRoss

Nasis ID
87FFA03



Nordic Breeding values feb 2014
100 = Breed average

▶▶▶ For key explanations and the value of +10 units (110), see page 24



TOTAL Body 89 Feet&legs 97 Udder 109

Stature	98 short	Fore udder	102 strong
Dairyness	99 strong	Rear udder height	110 high
Chest width	86 narrow	Rear udder width	119 wide
Body depth	69 shallow	Suspensory ligam.	101 strong
Rump width	96 narrow	Udder depth	110 shallow
Rump angle*	108 low pins	Udder balance	90 low rear
Top line	104 strong	Teat length	98 short
Legs side	89 posty	Teat thickness	97 thin
Legs rear view	88 hock in	Teat placem. front	117 close
Foot angle	116 steep	Teat placem. rear	116 close

*90 = level. Bold numbers = more than 1 standard deviation from average.



DAM PRODUCTION

489 Rosa
4 lact
12,424 kg
4% F / 497 kg F
3.4% P / 422 kg P

ABVg(i) – APRIL 2014

APR	150	F%	0.02
Milk	45	Rel% ASI	77
P kg	10	MS	99
F kg	3	Temp	100
ASI	70	Mammary	104
P%	0.16	Fertility	109

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows	●		
Maiden Heifers		●	



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A2/A2

RRP
\$26.00
+ GST

A2/A2

RRP
\$18.00
+ GST

D Onside

- Shorter powerhouse cows. If you want strength, this is the sire!
- Longevity increasing every year +128!
- Now 8,744 daughters, high scores for feet and legs and hoof health



Herdbook
DENMARK
248199

Bull ID
VikOnside

Nasis ID
89FFZ01



70%

NRR after
day 56,
see page 3

T Officer / Ha Manfred / B Patron

Nordic Breeding values feb 2014
100 = Breed average

NTM +25 +\$383 more profit

DAM PRODUCTION

ABV(i) – APRIL 2014

1230 Cindy
VG89
2 lact
13,007 kg
3.88% F / 505 kg F
3.34% P / 434 kg P

APR	176	F%	-0.45
Milk	1184	Rel% ASI	69
P kg	22	MS	102
F kg	19	Temp	100
ASI	87	Mammary	99
P%	-0.18	Fertility	105

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows	●		
Maiden Heifers		●	

►►► For key explanations and the value of +10 units (110), see page 24

PRODUCTION TRAITS REL 99% DTRS/HERDS 8744/2536

Prod. index	116	90	100	110	120
Milk, kg	124				
Protein, kg	120				
Protein, %	91				
Fat, kg	112				
Fat, %	90				
Growth rate	113				

HEALTH TRAITS REL 99%

Daughter fertility	111	90	100	110	120
Calvings, Sire	98				
Calvings, Daughters	94				
Udder health	105				
Other diseases	112				
Longevity	128				
Hoof health	118				

CONFORMATION/MANAGEMENT TRAITS NO. OF DTRS 4414

Milking speed	114	70	80	90	100	110	120	130
Temperament	98							

Average zone

TOTAL Body 67 Feet&legs 111 Udder 100

Stature	79	short	Fore udder	107	strong
Dairyness	87	strong	Rear udder height	95	low
Chest width	102	wide	Rear udder width	96	narrow
Body depth	107	deep	Suspensory ligam.	96	weak
Rump width	75	narrow	Udder depth	98	deep
Rump angle*	87	high pins	Udder balance	106	high rear
Top line	84	weak	Teat length	98	short
Legs side	94	posty	Teat thickness	96	thin
Legs rear view	112	parallel	Teat placem. front	91	wide
Foot angle	92	low	Teat placem. rear	88	wide

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



VIKINGGENETICS[®]
adding value every day

D Limbo

- High production with fast milking speed
- Shorter cows with good strength and feet and legs
- Leaves calves with strong growth rates



Herdbook
DENMARK
248700

Bull ID
VikLimbo

Nasis ID
89FFA01



65%

NRR after
day 56,
see page 3

Lancelot / T Funkis / E Celsius

Nordic Breeding values feb 2014
100 = Breed average

NTM +18 +\$275 more profit

DAM PRODUCTION

ABVg(i) – APRIL 2014

776 Ursela
VG87
2 lact
11,308 kg
4.02% F / 455 kg F
3.35% P / 378 kg P

APR	201	F%	0.27
Milk	314	Rel% ASI	81
P kg	15	MS	105
F kg	32	Temp	100
ASI	128	Mammary	94
P%	0.13	Fertility	107

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows	●		
Maiden Heifers		●	

►►► For key explanations and the value of +10 units (110), see page 24

PRODUCTION TRAITS REL 99% DTRS/HERDS 8569/2989

Prod. index	116	90	100	110	120
Milk, kg	107				
Protein, kg	112				
Protein, %	105				
Fat, kg	121				
Fat, %	111				
Growth rate	117				

HEALTH TRAITS REL 99%

Daughter fertility	97	90	100	110	120
Calvings, Sire	107				
Calvings, Daughters	103				
Udder health	101				
Other diseases	97				
Longevity	116				
Hoof health	113				

CONFORMATION/MANAGEMENT TRAITS NO. OF DTRS 3438

Milking speed	128	70	80	90	100	110	120	130
Temperament	96							

Average zone

TOTAL Body 91 Feet&legs 112 Udder 93

Stature	91	short	Fore udder	92	loose
Dairyness	105	angular	Rear udder height	98	low
Chest width	82	narrow	Rear udder width	102	wide
Body depth	84	shallow	Suspensory ligam.	91	weak
Rump width	97	narrow	Udder depth	95	deep
Rump angle*	91	low pins	Udder balance	100	high rear
Top line	115	strong	Teat length	99	short
Legs side	116	sickled	Teat thickness	99	thin
Legs rear view	103	parallel	Teat placem. front	103	close
Foot angle	112	steep	Teat placem. rear	98	wide

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



VIKINGGENETICS[®]
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What does the breeding values mean?

The value of +10 units for NTM for the sire is the same as \$ 153* added value for the heifer under Scandinavian conditions.
Source NAV. Euro converted to AUD 1/3/2014.

Production traits	Breed Average	Meaning of +10 units
NTM	0	+\$120
Milk Index, kg	9,477	+160 kg
Fat Index, kg	387	+8.6 kg
Fat, %	4.09	+0.13 %
Protein, kg	319	+6.1 kg
Protein, %	3.37	+0.08 %
Growth Rate, weight gain/day	941	+8g/day higher weight gain of bull calves
Calculation of Production Index	-0.25 x Milk + 0.25 x Fat + 1 x Protein	

Health traits	Meaning of +10 units
Daughter fertility. Fertility data from heifers, first, second and third calvers. Includes number of inseminations, interval from calving to 1st insemination, interval between first and last insemination, Non Return Rate.	Days open reduced by 8 days and 0.03 less services per pregnancy
Calvings, Sire (Maiden heifers). Based on calving difficulties and number of stillborn calves from first calvers and later lactations of the sire. Information of calf size is also available from Denmark but not included in the index.	Reduction in difficult calvings with 2% and 1% less stillborn calves
Calvings, Daughters (Maiden heifers). Expresses the ability of the bulls' daughters to give birth to a living calf at their first calving. Information of calf size is also available from Denmark but not included in the index.	Reduction in difficult calvings with 2.5% and 2% less stillborn calves
Udder Health. Based on mastitis diagnosis, compulsory reported by vets and from the milk recording scheme, cell-count data and reported cullings due to mastitis. In addition conformation traits like udder depth is used to further increase the accuracy of the index.	1.8% units less mastitis treatments in first lactation, 2.6% less mastitis treatments in second and third lactation
Other diseases. Based on diseases other than mastitis, compulsory reported by vets and culling reports from the milk recording scheme. The diseases are divided in to four different subindexes – early and late fertility disorder, feet and leg problems and metabolic diseases – these four sub-indexes are then weight together to the complete index for Other diseases.	2.7% less treatments for reproduction diseases, metabolic disorders and diseases in hooves, feet and legs in first and second lactation. 3.6% less treatments for the same diseases in third lactation
Hoof Health. Based on lesion scoring reported by hoof trimmers. Includes both infectious and laminitis related lesions with highest weight put on sole ulcer.	Significant decrease in Dermatitis, Heel horn erosion, Sole haemorrhages, Sole ulcer, Corkscrew claw, Limax, White line disease and double sole.
Longevity. Based on the proportion of daughters calving a fourth time.	36 days longer productive life

Management traits	Meaning of +10 units
Milking speed. Based on farmers observations and robotic data.	9.5 g Fat + Protein more per minute
Temperament. Based on farmers observations and robotic data.	

Type guide for selected type traits

VikingGenetics breeds for functional type-medium sized cows, strong feet&legs and shallow, well attached udders with correct teat placement. In short cows that fit perfectly

into modern production systems! Below is a guide for some of the type traits which we receive the most questions about.

STATURE

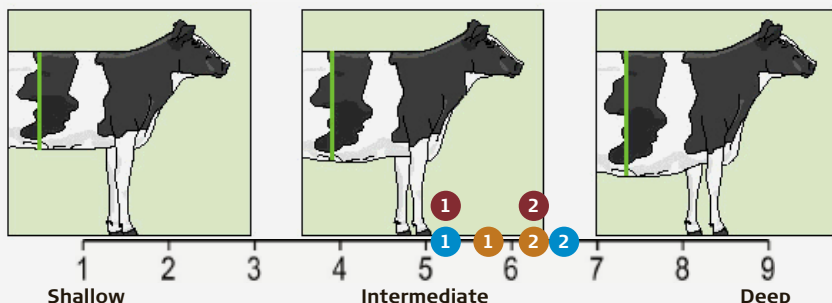
Holstein: Average height at hips 145.1 cm for 1st calvers. 10 units either way (90 or 110) will move this by 1.3 cm either side of the average.

VikingRed: Average height at hips 138.1 cm for 1st calvers. 10 units either way (90 or 110) will move this by 1.1 cm either side of the average.

VikingJersey: Average height at hips 127 cm for 1st calvers. 10 units either way (90 or 110) will move this by 0.7 cm either side of the average.

BODY DEPTH

The picture below shows where our sires in this catalogue rank for each breed on the classification scale (1-9).

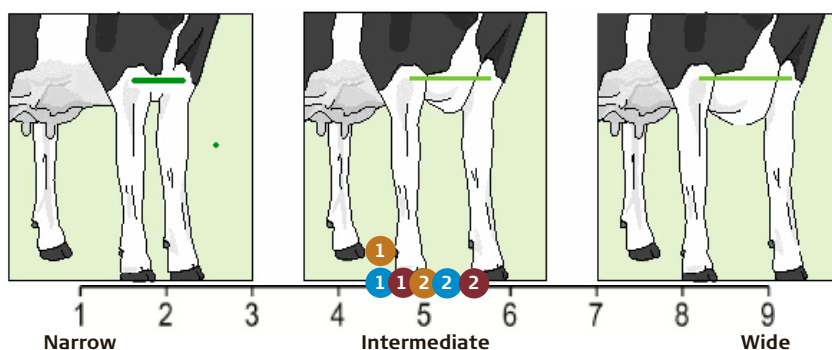


Sire and Breeding value (Breed Average=100)

1	S Ross	69
2	VH Melos	114
1	VR Gibson	83
2	VR Balfa	127
1	DJ Hulk	86
2	DJ Zaga	127

CHEST WIDTH

The picture below shows where our sires in this catalogue rank for each breed on the classification scale (1-9).

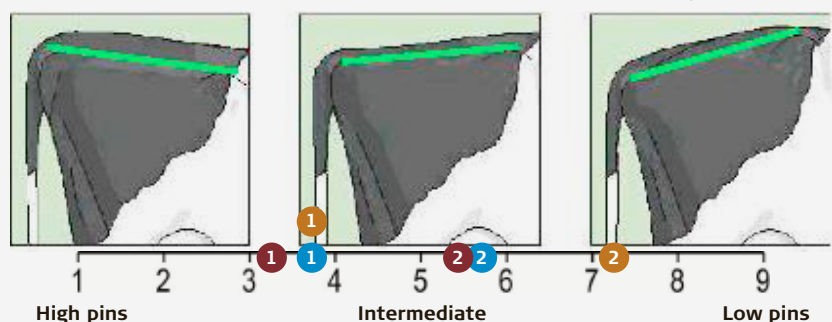


Sire and Breeding value (Breed Average=100)

1	D Limbo	82
2	VH Strong	123
1	G Edbo	79
2	S Valpas	127
1	DJ Hulk	88
2	DJ Lirsk	115

RUMP ANGLE

The picture below shows where our sires in this catalogue rank for each breed on the classification scale (1-9).



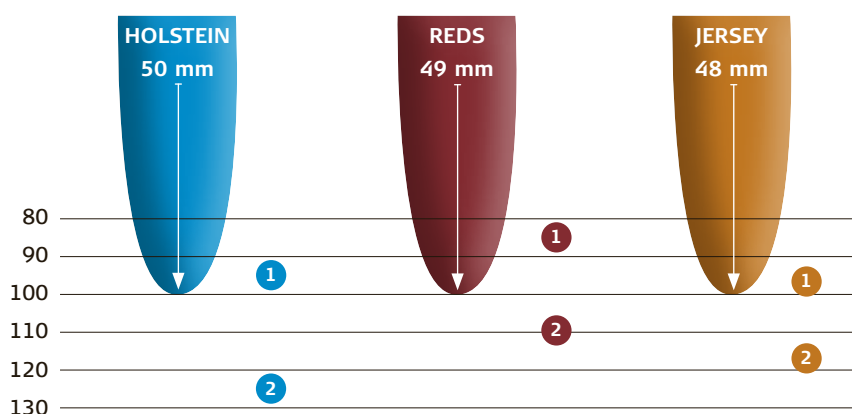
5 is the average for all breeds and the optimum. Score 5 has the pins 40 mm lower than the hip which is considered ideal. 5 is 100 (average) on conformation score. Pins are not high until the classification score drops below 3 (90 on the conformation score).

Sire and Breeding value (Breed Average=100)

1	D Onside	87
2	VH Strong	116
1	VR Balfa	76
2	VR Flame	111
1	DJ Lix	90
2	VJ Lure	121

TEAT LENGTH

The pictures below shows the average (Breeding value 100) teat length for each breed and the sires with the shortest and longest teats.



Holstein
Movement of 5 mm per 10 units

Reds/Jersey
Movement of 8 mm per 10 units

Sire and Breeding value (Breed Average=100)

1	DRH Jerut	90
2	VH Melos	112
1	VR Gibson	81
2	VR Nero	107
1	DJ Hulk	94
2	DJ jante	123

TEAT THICKNESS

For Holsteins, Viking Reds and Jerseys the teat thickness is average 2.3 cm in diameter. A -10 (90) sire would make the measurement for that trait to 2.2 cm.

Sire comments Holstein



VH Grafit **(Goldwyn x Oman x Marshall)**

VH Grafit is a Goldwyn son proven under the Viking system that has a nice health profile combined with high production. VH Grafit has 822 daughters in his production and health proof and 218 daughters classified. He has a high NTM of +31 and a very strong APR of 281. Daughter fertility is very good 108 as is cell count 135. Total udder score is very nice and being shallow and having longer teats. VH Grafit is for those who like "big cows" as they are tall open framed cows with good feet and legs and hoof health.



VH Basten **(Banker x Lambada x Funkis)**

VH Basten is a super outcross sire and achieves a good ABV(i) 219 even though his outcross pedigree takes many points from him. Basten has a great "engine room" (production with health traits, the profit drivers). He also has a really good type proof as his daughters have good chest with correct rump structure and strong top lines. Basten udders are ideal as he brings the front teats in and takes the rear teats out a little, which is needed on the modern Holstein. Udder depth is also excellent and fore and rear attachments are strong. Basten is an excellent all round sire and should be used in most mating situations.



VH Strong **(Stol Joc x Oman x DL Aaron)**

VH Strong is a sire with a high APR of 277 and an NTM of +26. Protein production is high with milk combined with positive test 9,401 and +0.14% 33kg protein. Even though his daughter fertility is a little lower in Viking he converts positive one deviation here at 104, showing the strength in Viking's NTM system for improvement in health traits. VH Strong leaves calves with very good growth rates and grow to be powerful cows with very strong chest and body, ideal rump structure and lower pins. Udders are also very tidy with ideal teat placement. Strong should be used where more production and strength is needed and improvement in cell count and mastitis treatments.



VH Mogens **(Mascol x Oman x Funkis)**

VH Mogens is a lovely black bull that leaves average statured cows with a nice balance of chest and body. Daughter fertility is slightly negative in Viking but over a deviation stronger here at 105 showing the strength in the NTM system for improvement in health traits. VH Mogens is a super sire for use with conventional semen or sexed for maiden heifers, gestation is shorter so the calves are born smaller but have great growth rates at +114, smaller birth weights stronger growth rates, the "perfect scenario". Mammary is good with udders also being more shallow. VH Mogens is positive 400 ltr milk +21kg protein and +0.02% protein! Cell count is also great at 148. VH Mogens can be used over most lines here where Oman is not in the fore of the pedigree and will produce a very profitable easy to manage cow.



VH Bento **(Banker x Oman x Funkis)**

VH Bento is a sire with a very balanced proof and is desirable in all traits. ABV(i) 218, cell count 129, milking speed 102, temperament 102, calving ease 102, daughter fertility 106, overall type 108, mammary 102. Udders are very snug and well attached with longer teats. Farmers here love his calves, as they show great strength and vigour and are predominately black. VH Bento is also a good component lifter at +0.16% protein and +0.12% fat and almost +400 litres milk. VH Bento is a great choice to use where more strength is needed and improved test and udders are desirable as well. VH Bento daughters also have great foot angle and hoof health.



D Ole **(Oman x Jocko x Hubert)**

D Ole is a sire that now has 15,581 daughters in his proof. That does not happen unless farmer satisfaction is very high. Ole daughters are lovely looking cows for an Oman son, strong bodied cows with ideal rumps and top line. Udders are very good and particularly strong in the fore attachment with desirable fore teat placement. D Ole's daughter calvings' index of 87 means 2% more difficulties than normal which is a small negative for a Sire that offers so many positives for production other health traits, type and udders. D Ole is a great choice for use on all lines except Oman and Jocko Besno.



D Sol
(Shottle x Funkis x Otto)

D Sol has been our most popular Holstein Sire since starting Viking genetics in Australia. D Sol has such a good health profile, positive production and daughters that are a little shorter than average with strength, desirable feet and legs with strong hoof health and herd longevity. D Sol now has 2,104 daughters in his Viking proof and many will be starting to come into production here in Australia this year. D Sol has a great ability to leave easily born calves from maiden heifers either with conventional or sexed semen. The calves have strong growth rates +114 and D Sol progeny is predominately black. D Sol daughters have great capacity and chest width and are ideal to use over any lines here except Shottle.



D Onside
(Officer x Manfred x Patron)

D Onside cows are some of the most impressive cows, if you like shorter, wider, powerful cows that stand square and strong on very correct feet and legs with excellent hoof health. Onside has the great "engine room" (very high production coupled with strong health traits, the profit drivers). He is a deep bodied black sire with 8,744 daughters in Denmark and is great to use over the very tall angular type cows that are frail, or any cow really that needs a shot of power or vigour. He will go over most pedigrees in Australia and will work well even on the Oman (sons) lines as he is one generation back being from a Manfred Cow. Onside cows will perform at a very high level under all management situations.



S Ross
(Chasse x Funkis x Heradskop)

S Ross presents as another great opportunity for a top outcross sire to the Australian bloodlines. Daughters are now coming into production here and are impressing with spring of rib, good udders and production. S Ross is a world leader for a top line sire in the area of daughter fertility. S Ross now has 11,458 Viking daughters in his proof and still has a huge index of +125 NTM (ABVi +111). S Ross is a great choice for those focusing on lifting herd fertility and an obvious choice to keep building on top of Oman lines as he is a total outcross and of course longevity is a strength of S Ross as well. S Ross will breed the "invisible" cow, the cows not really noticed until their second and later lactations.



D Limbo
(Lancelot x Funkis x Celsius)

D Limbo now has 8569 Viking daughters in his proof and is still holding strong as a high production sire whose daughters have longevity, strong feet and legs with great hoof health. D Limbo daughters have more set to the rear legs than average while still having good foot angle. He will be a good choice over cows that are getting too straight in the legs or cows that do a lot of walking. Limbo cows are shorter than average and have good strength, daughters will be in production here this year. So far comments on Limbo calves have been very positive as they are strong and "great doers" as he has a growth index of +117 on his calves. D Limbo will be a good choice on pedigrees where Lancelot is not in the fore.



VH Miracle
(Massey x Roumare x Calano)

Miracle is typical of the genomic sires we are presenting to the Australian market, put simply they are the best young sires from the Viking NTM system. We have selected sires with very strong "engine rooms" (production and health traits, the profit drivers). VH Miracle is a very highly rated young sire with an NTM of +40. Last year 81,000 does of Miracle was used in the Viking population as not only does he offer health but super udders and excellent milking speed and temperament as well. VH Miracle can be used in most situations where Roumare is not present.



VH Sprite
(Sterngold x Rakuuna x Ramos)

Sprite compliments our team nicely as he also fits the "engine room" mould with great health and positive milk and components with moderate body and very strong udder conformation. Sprite is out of a Rakuuna cow and it's pleasing to see Rakuuna featuring now in the pedigrees of many of our young genomic sires as he was such a great sire. Scores for feet and legs are also high coupled with positive hoof health.

Sire comments Holstein



VH Melos
(Massey x Boiver x Die Hard)

Melos is for those who want a taller cow with plenty of style. Production is good with positives for milk and components. Most health traits are positive except for a slightly lower than average score on daughter fertility and udder health is strong. Udders are exceptional at +130 and Melos adds nice length to shorter teats.



VH Oneal - P
(VH Ove-P x Stame x V Exces)

Oneal will leave 50% of progeny polled and is a lovely bodied predominately black sire. He has a very Scandinavian pedigree and offers outcross bloodlines. Production and health traits are high, daughters will be shorter than average with good strength, feet and legs and hoof health. Oneal - P's udder traits are good with no real extremes in either direction and can be used in most situations here.



DRH Jerut
(Jerudo x DRK Utzon x DRK Uran)

Jerut is a red and white Holstein offering different lines than most Red and White Holsteins. He is a sound choice as he is good for milk and test and is a good sire for calving ease as well. Udder health is good as is longevity scores. Mammary conformation is high as well at +117 and feet and legs and hoof health are positive also. Jerut is interesting for those who like the red and whites or a good outcross Sire.



VH Rebound
(VH Robot x D Banker x Mascol)

Rebound has a wonderful health profile backed up with sound production and high udder scores. VH Robot is a Rakuuna on; Rakuuna was a great sire in the Viking population with 36,000 daughters and now are coming into production here as well. Rebound daughters should be well balanced for type with good udders as well as big gains in the health traits and will be suited to most bloodlines here.



VH Stanley
(Sterngold x Oman x Ekerod)

VH Stanley is a Sterngold who is a Stol Joc Son, Ekerod was a Swedish Holstein. Stanley has a super health profile, good production traits (the "engine room"), moderate body with very sound udder conformation. His genomic proof is very high for daughter fertility and longevity and will be able to be used in most situations.



VH Obama
(Orange x Mascol x Gul)

Obama is a predominately black sire with some outcross lines for Australia. Orange was an Oman son and Mascol and Gul offer some different lines. Obama has good ratings for udder and longer, thicker teats with lovely placement. He keeps the body ratings in the moderate range which is what we are trying to achieve with most sires (good production and health traits, positive feet and legs and udder conformation).

Viking Top 3 – make your choice!

NTM

Viking Holstein		
VH Miracle (g)	+40	
VH Sprite (g)	+33	
VH Stanley (g)	+32	
Viking Red		
Buckarby	+31	
VR Fergus (g)	+26	
VR Hambo (g)	+25	
Viking Jersey		
VJ Link	+30	
VJ Husky	+25	
VJ Hilario	+24	

CALVINGS, SIRE/TOTAL INDEX

Calving ease and mortalities combined		
Viking Holstein		
DRH Jerut (g)	118	
VH Stanley (g)	115	
VH Rebound (g)	111	
Viking Red		
Buckarby	111	
VR Hambo (g)	110	
VR Nero (g)	110	

LONGEVITY

Viking Holstein		
VH Miracle (g)	131	
D Onside	128	
VH Sprite (g)	128	
Viking Red		
VR Gibson	131	
Buckarby	123	
R David	123	
Viking Jersey		
VJ Link	114	
DJ Holmer	114	
VJ Hilario	113	

TEMPERAMENT

Viking Holstein		
VH Melos (g)	113	
VH Miracle (g)	111	
VH Bento	110	
Viking Red		
G Edbo	120	
R David	119	
VR Fergus (g)	119	
Viking Jersey		
VJ Ramirez (g)	113	
DJ Lix	108	
VJ Maestro	108	

PRODUCTION

Viking Holstein		
VH Grafit	126	
VH Oneal P (g)	123	
VH Strong	123	
Viking Red		
S Valpas	124	
G Edbo	124	
A Andrei	122	
Viking Jersey		
DJ Hulk	127	
VJ Lure	123	
VJ Husky	118	

UDDER HEALTH

Viking Holstein		
VH Strong	117	
VH Melos (g)	114	
VH Miracle (g)	113	
Viking Red		
R Bangkok	122	
Buckarby	117	
VR Balfa	110	
Viking Jersey		
DJ Holmer	118	
VJ Link	117	
VJ Hilario	109	

UDDERS

Viking Holstein		
VH Miracle (g)	131	
VH Melos (g)	130	
VH Basten	125	
Viking Red		
R Facet	124	
VR Uudin (g)	123	
VR Fergus (g)	118	
Viking Jersey		
DJ Lix	121	
VJ Husky	115	
VJ Maestro	114	

MILKING SPEED

Viking Holstein		
D Limbo	128	
VH Miracle (g)	126	
D Onside	114	
Viking Red		
G Edbo	136	
R Haslev	123	
VR Ultimo (g)	117	
Viking Jersey		
VJ Maestro	119	
VJ Lure	114	
DJ Hulk	114	

DTR FERTILITY

Viking Holstein		
S Ross	125	
VH Stanley (g)	122	
VH Rebound (g)	120	
Viking Red		
VR Ultimo (g)	119	
V Foske	117	
VR Flame	116	
Viking Jersey		
VJ Link	124	
VJ Ramirez (g)	118	
VJ Hilario	118	

HOOF HEALTH

Viking Holstein		
D Sol	118	
D Onside	118	
D Ole	117	
Viking Red		
R Haslev	114	
VR Uudin (g)	113	
VR Ultimo (g)	113	
Viking Jersey		
VJ Link	116	
DJ Hulk	109	
VJ Husky	99	

FEET AND LEGS

Viking Holstein		
VH Sprite (g)	127	
VH Grafit	113	
D Limbo	112	
Viking Red		
R Fastrup	125	
VR Cigar	119	
R Haslev	113	
Viking Jersey		
VJ Link	118	
VJ Lure	109	
VJ Holdo (g)	107	

BEST SIRES FOR MAIDEN HEIFERS

Viking Holstein	Calving ease	
VH Mogens	115	
D Sol	113	
DRH Jerut (g)	113	
Viking Red	Calving ease	
VR Gibson	110	
Buckarby	105	
R Fastrup	105	

The best of Viking Red Proven and Genomics for Australia

VikingGenetics Red genomic programme will ensure red cows worldwide to be a strong competitor to the Holstein and Jersey populations.

Red breeders around the globe are fortunate to be able to select sires from a large population of 350,000 red cows in Sweden, Finland and Denmark with a unique registration system founded on the world's best database. No other system has the flood of information being continually loaded into the databank

on all aspects of breeding from production and conformation to extensive health and fertility trait recordings. Recording the wide range of health traits is important as you get almost the same reliability (50-60%) for low heritability traits (mastitis, cell count, fertility, calving ease, hoof health etc.) with genomic proofs as with daughter proofs. This paves the way for a powerful and extremely effective genomic programme.



WHAT IS A GENVIK SIRE?

A GenVik sire is a sire that is selected and approved for use in a team of 200 sires annually. This team of 200

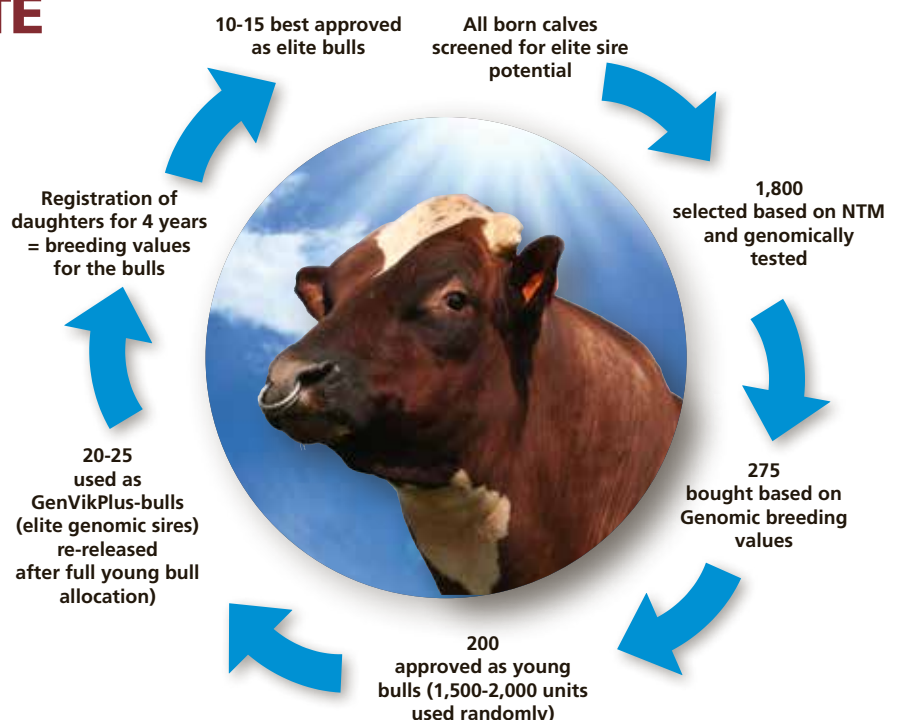
GenVik sires is selected from 2,000 genomically tested young bulls that are a result of carefully planned mating's on genomically tested females with NTM (Nordic Total Merit) being the main selection tool. The approved team of 200 GenVik sires are then collected when they are old enough to produce semen at the age of 10-14 months. Then 1,500-2,000 units are used RANDOMLY over the entire Scandinavian red population. This is a great system as there is no biased use of semen and a bull's first proof has a high reliability of 150+ daughters, avoiding huge shifts in a sire's long term proof.



WHAT IS A GENVIKPLUS SIRE?

A GenVikPlus (GVP) sire is the best 10% of GenVik young sires that are being put back in service after semen from the whole test team has been used (approximately 20-25 sires from the initial team of 200). GVP sires proofs change faster than daughter proven proofs as reliability is lower but if you use them as PACK (use several sires) you spread the risk and get at least 50% HIGHER GENETIC PROGRESS than if you use daughter proven sires. Eg if the average proofs for a daughter proven team in a year have an NTM of +16, then the

FROM CALF TO ELITE PROVEN NTM SIRE – MANY STEPS OF SELECTION





average of the GenVikPlus team will have an NTM of +24, resulting in greater profit to the farmer at the highest level possible. This is why we promote the use of a GenVikPlus pack, to spread the risk and improve the average result. You should not fall in love with one bull as it can be like falling in love with a woman (or man) - if you choose the wrong one, the future can look dark! You can also compare it to investing through a mutual fund instead of a single stock.

Red breeders in Scandinavia have EMBRACED GENOMIC SIREs because "it just works". 25% of semen used is genomic young sires, 30% is GenVikPlus sires and 45% is daughter proven so the total amount of genomic sires used on average in red herds is 55%. The trend of genomic usage is growing stronger each year with farmers

using ever increasing numbers - some even to 100% as the reliability of genomics is rapidly increasing and they see the result of better cows in their herd.

LARGE SCALE TEST PROJECT WILL INCREASE RELIABILITIES

The Viking Reds have a strong base of 8,000 bulls as a reference group. Currently VikingGenetics has a large scale project with genomic testing of 10,000 females to be added to the reference group as well. The first results of this inclusion show an increase of 5% in reliability on some traits and should increase further as more animals are added to the reference population.

PURCHASE GENOMIC SIREs INDIVIDUALLY OR SAVE \$ WITH OUR Great Pack Deals:

PACK 1

Purchase 25 straws each of at least 4 Genomic Sires to receive the PACK price of \$20 +GST per dose.

PACK 2

Purchase 20 straws each of at least 3 Genomic Sires to receive PACK price of \$22 +GST per dose





Suitable for crossbreeding!

Buckarby

RRP
\$35.00
+ GST

- Proven bloodlines in Australia
- No. 1 proven NTM Sire
- Calving ease, suitable for maiden heifers

NTM +31
+\$474 more profit



61%

NRR after day 56, see page 3



O Brolin R / Peterslund / Stensjo

Herdbook
SWEDEN
92671

Bull ID
VikBuckarby
Nasis ID
87UUC05



Nordic Breeding values feb 2014
100 = Breed average

▶▶▶ For key explanations and the value of +10 units (110), see page 37

PRODUCTION TRAITS	REL 98%	DTRS/HERDS	492/274
Prod. index	113	100	110
Milk, kg	103	100	110
Protein, kg	112	100	110
Protein, %	114	100	110
Fat, kg	108	100	110
Fat, %	106	100	110
Growth rate	102	100	110

HEALTH TRAITS	REL 92%
Daughter fertility	112
Calvings, Sire	111
Calvings, Daughters	107
Udder health	117
Other diseases	112
Longevity	123
Hoof health	107

CONFORMATION/MANAGEMENT TRAITS	NO. OF DTRS	211
Milking speed	113	110
Temperament	101	110

TOTAL Body 93 Feet&legs 111 Udder 108

Stature	96 short	Fore udder	114 strong
Dairyness	102 angular	Rear udder height	105 high
Chest width	99 narrow	Rear udder width	98 narrow
Body depth	88 shallow	Suspensory ligam.	84 weak
Rump width	82 narrow	Udder depth	112 shallow
Rump angle*	101 low pins	Udder balance	95 low rear
Top line	110 strong	Teat length	98 short
Legs side	106 sickled	Teat thickness	103 thin
Legs rear view	118 parallel	Teat placem. front	89 wide
Foot angle	99 low	Teat placem. rear	83 wide

*90 = level. Bold numbers = more than 1 standard deviation from average.



DAM PRODUCTION

492 Dora
VG85
6 lact
9,423 kg
5.3% F / 499 kg F
3.9% P / 367 kg P

ABV(i) – APRIL 2014

APR	232	F%	0.15
Milk	277	Rel% ASI	71
P kg	16	MS	103
F kg	22	Temp	100
ASI	120	Mammary	102
P%	0.16	Fertility	105

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows	●		
Maiden Heifers	●		



*When money talks,
we choose*

VIKINGGENETICS[®]
adding value every day



Suitable for
crossbreeding!

A2/A2

V Föske

- Superior longevity
- Very fertile cows
- Brings front teats in

SEXED
SEMEN
\$60.00
+ GST

RRP
\$26.00
+ GST

NTM +19
+\$291 more profit



64%

NRR after day 56, see page 3



Miqur / Gardo / Tunnus

Herdbook
SWEDEN
92483

Bull ID
VFoske
Nasis ID
87UUB04



Nordic Breeding values feb 2014
100 = Breed average

►►► For key explanations and the value of +10 units (110), see page 37

PRODUCTION TRAITS		REL 99%	DTRS/HERDS	2477/834	
		90	100	110	120
Prod. index	112				
Milk, kg	108				
Protein, kg	112				
Protein, %	103				
Fat, kg	109				
Fat, %	101				
Growth rate	104				

HEALTH TRAITS		REL 96%			
		90	100	110	120
Daughter fertility	117				
Calvings, Sire	102				
Calvings, Daughters	99				
Udder health	104				
Other diseases	104				
Longevity	120				
Hoof health	101				

CONFORMATION/MANAGEMENT TRAITS		NO. OF DTRS		721				
		70	80	90	100	110	120	130
Milking speed	105							
Temperament	111							

Average zone

TOTAL Body 107 Feet&legs 91 Udder 102

Stature	105 tall	Fore udder	108 strong
Dairyness	100 angular	Rear udder height	97 low
Chest width	110 wide	Rear udder width	109 wide
Body depth	108 deep	Suspensory ligam.	102 strong
Rump width	107 wide	Udder depth	103 shallow
Rump angle*	104 low pins	Udder balance	104 high rear
Top line	97 weak	Teat length	89 short
Legs side	102 sickled	Teat thickness	77 thin
Legs rear view	99 hock in	Teat placem. front	125 close
Foot angle	91 low	Teat placem. rear	106 close

*90 = level. Bold numbers = more than 1 standard deviation from average.



DAM PRODUCTION

210 Lilja
3 lact
7,606 kg
4% F / 304 kg F
3.9% P / 297 kg P

ABV(i) – APRIL 2014

APR	233	F%	-0.03
Milk	626	Rel% ASI	70
P kg	20	MS	102
F kg	25	Temp	103
ASI	123	Mammary	103
P%	0.06	Fertility	108

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows	●		
Maiden Heifers	●		



*When money talks,
we choose*

VIKINGGENETICS[®]
adding value every day

Pack discounts,
see page 31

SEXED
SEMEN
\$60.00
+ GST

RRP
\$25.00
+ GST

VR Fergus

- Production and health
- Superior udders
- Top conformation/functional traits
- Suitable for crossbreeding



R Facet / R David / Orraryd

Herdbook
**DENMARK
37014**

Bull ID
VikFergus

Nasis ID
89UUG03



64%

NRR after
day 56,
see page 3



NTM +26 +\$398 more profit

DAM PRODUCTION

**Cow 2641
EX90
3 lact
9,782 kg
4.18% F / 409 kg F
3.44% P / 336 kg P**



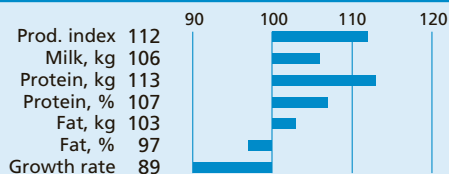
Nordic Breeding values feb 2014
100 = Breed average

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

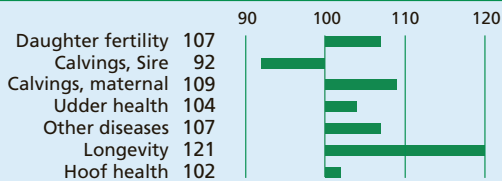
	Easy	Average	Harder
Cows			●
Maiden Heifers			●

▶▶▶ For key explanations and the value of +10 units (110), see page 37

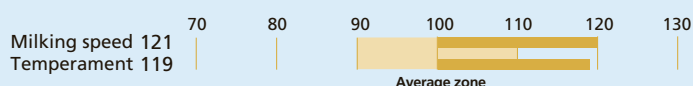
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION/MANAGEMENT TRAITS



TOTAL Body 106 Feet&legs 110 Udder 118

Stature	114 tall	Fore udder	116 strong
Dairyness	110 angular	Rear udder height	120 high
Chest width	79 narrow	Rear udder width	116 wide
Body depth	90 shallow	Suspensory ligam.	110 strong
Rump width	114 wide	Udder depth	120 shallow
Rump angle*	97 low pins	Udder balance	104 high rear
Top line	101 strong	Teat length	99 short
Legs side	87 posty	Teat thickness	104 thick
Legs rear view	112 parallel	Teat placem. front	112 close
Foot angle	113 steep	Teat placem. rear	115 close

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



Pack discounts,
see page 31

RRP
\$24.00
+ GST

VR Ultimo

- Front teat placement and overall mammary
- Excellent Health traits
- Conformation/functional traits
- Suitable for crossbreeding



Ullimulli / Gunnarstorp / O Brolin

Herdbook
**SWEDEN
99517**

Bull ID
VikRUltimo

Nasis ID
87UUH14



66%

NRR after
day 56,
see page 3



NTM +24 +\$367 more profit

DAM PRODUCTION

**3 Eka
VG86
3 lact
9,601 kg
4.6% F / 441 kg F
3.4% P / 324 kg P**



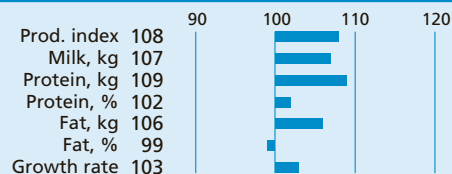
Nordic Breeding values feb 2014
100 = Breed average

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

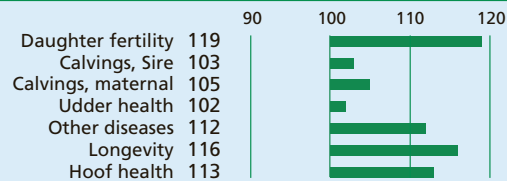
	Easy	Average	Harder
Cows	●		
Maiden Heifers	●		

▶▶▶ For key explanations and the value of +10 units (110), see page 37

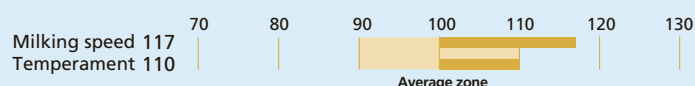
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION/MANAGEMENT TRAITS



TOTAL Body 108 Feet&legs 103 Udder 113

Stature	109 tall	Fore udder	113 strong
Dairyness	99 strong	Rear udder height	114 high
Chest width	114 wide	Rear udder width	115 wide
Body depth	103 deep	Suspensory ligam.	106 strong
Rump width	109 wide	Udder depth	111 shallow
Rump angle*	100 low pins	Udder balance	105 high rear
Top line	92 weak	Teat length	95 short
Legs side	99 posty	Teat thickness	100 thick
Legs rear view	108 parallel	Teat placem. front	112 close
Foot angle	100 steep	Teat placem. rear	106 close

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



Pack discounts,
see page 31

SEXED
SEMEN
\$60.00
+ GST

RRP
\$24.00
+ GST

VR Hambo

- Strong production and health
- Good udders and longer teats
 - No. 1 Haslev son
- Suitable for crossbreeding



R Haslev / G Edbo / Peterslund

Herdbook
SWEDEN
99515
Bull ID
VikRHambo
Nasis ID
87UUH15



63%

NRR after
day 56,
see page 3



NTM +26 +\$383 more profit

DAM PRODUCTION

594 Grevinna
2 lact
13,102 kg
4.1% F / 537 kg F
3.6% P / 472 kg P



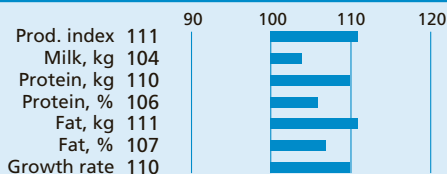
Nordic Breeding values feb 2014
100 = Breed average

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

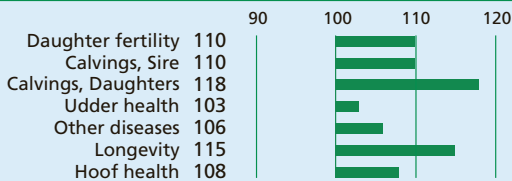
	Easy	Average	Harder
Cows	●		
Maiden Heifers	●		

▶▶▶ For key explanations and the value of +10 units (110), see page 37

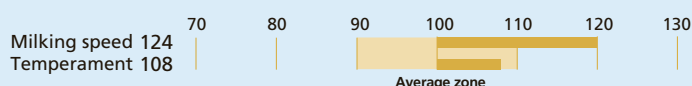
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION/MANAGEMENT TRAITS



TOTAL Body 103 Feet&legs 104 Udder 108

Stature	105 tall	Fore udder	101 strong
Dairyness	104 angular	Rear udder height	102 high
Chest width	84 narrow	Rear udder width	105 wide
Body depth	93 shallow	Suspensory ligam.	99 weak
Rump width	106 wide	Udder depth	111 shallow
Rump angle*	98 low pins	Udder balance	111 high rear
Top line	92 weak	Teat length	103 long
Legs side	105 sickled	Teat thickness	98 thin
Legs rear view	108 parallel	Teat placem. front	107 close
Foot angle	92 low	Teat placem. rear	110 close

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



Pack discounts,
see page 31

RRP
\$24.00
+ GST

A2/A2

VR Flame

- No. 1 V Foske Son
- Production and components
 - Fertile long lasting cows
- Suitable for crossbreeding



V Foske / Gunnarstorp / O Brolin

Herdbook
SWEDEN
99507
Bull ID
VikFlame
Nasis ID
87UUH11



60%

NRR after
day 56,
see page 3



NTM +23 +\$352 more profit

DAM PRODUCTION

811 Tekla
3 lact
8,807 kg
4.3% F / 379 kg F
3.6% P / 317 kg P



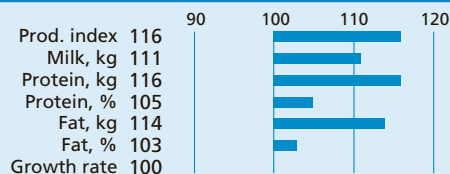
Nordic Breeding values feb 2014
100 = Breed average

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

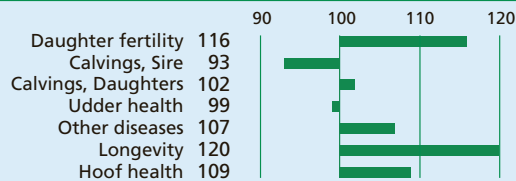
	Easy	Average	Harder
Cows	●		
Maiden Heifers		●	

▶▶▶ For key explanations and the value of +10 units (110), see page 37

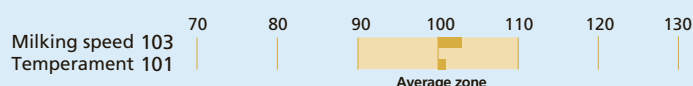
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION/MANAGEMENT TRAITS



TOTAL Body 99 Feet&legs 108 Udder 104

Stature	101 tall	Fore udder	104 strong
Dairyness	104 angular	Rear udder height	103 high
Chest width	95 narrow	Rear udder width	110 wide
Body depth	94 shallow	Suspensory ligam.	100 strong
Rump width	96 narrow	Udder depth	106 shallow
Rump angle*	111 low pins	Udder balance	105 high rear
Top line	111 strong	Teat length	95 short
Legs side	103 sickled	Teat thickness	90 thin
Legs rear view	104 parallel	Teat placem. front	111 close
Foot angle	101 steep	Teat placem. rear	100 close

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



A2/A2

Pack discounts,
see page 31RRP
\$24.00
+ GST

VR Uudin-ET

- Superb udders, longer teats
- Outcross lines
- Impressive all round sire
- Suitable for crossbreeding



Herdbook
**FINLAND
46301**
Bull ID
VikRUudin
Nasis ID
91UUH07



70%
NRR after
day 56,
see page 3

Asmo Ullimulli x Niemelan Ooppium
x Lammin Life



NTM +20 +\$306 more profit

DAM PRODUCTION

Ysikymppi

4 lact

12,897 kg

3.5% F / 457 kg F

3.3% P / 432 kg P



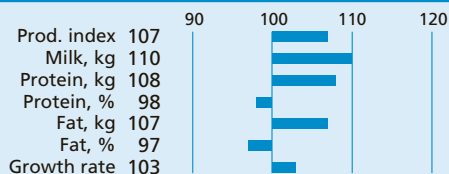
Nordic Breeding values feb 2014
100 = Breed average

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

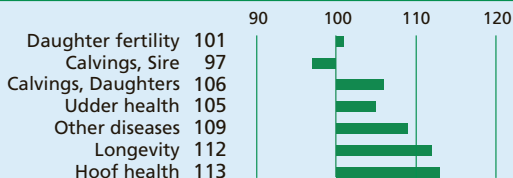
	Easy	Average	Harder
Cows	●		
Maiden Heifers		●	

►►► For key explanations and the value of +10 units (110), see page 37

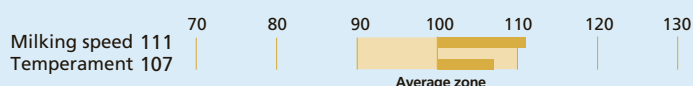
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION/MANAGEMENT TRAITS



TOTAL Body 105 Feet&legs 101 Udder 123

Stature	104 tall	Fore udder	123 strong
Dairyness	100 angular	Rear udder height	120 high
Chest width	96 narrow	Rear udder width	114 wide
Body depth	99 shallow	Suspensory ligam.	121 strong
Rump width	110 wide	Udder depth	110 shallow
Rump angle*	95 low pins	Udder balance	109 high rear
Top line	92 weak	Teat length	106 long
Legs side	108 sickled	Teat thickness	114 thick
Legs rear view	104 parallel	Teat placem. front	117 close
Foot angle	93 low	Teat placem. rear	110 close

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



adding value every day

A2/A2

Pack discounts,
see page 31RRP
\$22.00
+ GST

VR Nero PP ET

- 100% polled calves
- Deep red sire and outcross
- Nice all round proof
- Suitable for crossbreeding



Herdbook
**FINLAND
46162**
Bull ID
VikRNero
Nasis ID
91UUH03



70%
NRR after
day 56,
see page 3

Nora Prastgard / Andersta / Oopium



NTM +16 +\$245 more profit

DAM PRODUCTION

811 Asmo Elli ET

2 lact

8,954 kg

3.8% F / 341 kg F

3.5% P / 314 kg P



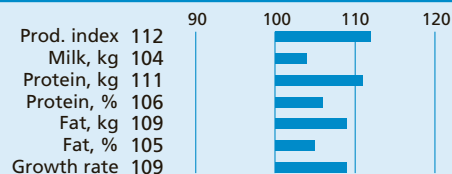
Nordic Breeding values feb 2014
100 = Breed average

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

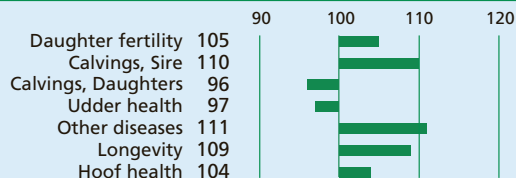
	Easy	Average	Harder
Cows	●		
Maiden Heifers	●		

►►► For key explanations and the value of +10 units (110), see page 37

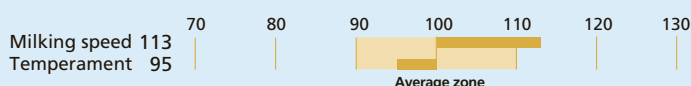
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION/MANAGEMENT TRAITS



TOTAL Body 92 Feet&legs 110 Udder 99

Stature	93 short	Fore udder	102 strong
Dairyness	98 strong	Rear udder height	109 high
Chest width	90 narrow	Rear udder width	101 wide
Body depth	91 shallow	Suspensory ligam.	105 strong
Rump width	108 wide	Udder depth	108 shallow
Rump angle*	98 low pins	Udder balance	98 low rear
Top line	107 strong	Teat length	107 long
Legs side	101 sickled	Teat thickness	85 thin
Legs rear view	106 parallel	Teat placem. front	104 close
Foot angle	102 steep	Teat placem. rear	109 close

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



adding value every day



What does the breeding values mean?

The value of +10 units for NTM for the sire is the same as \$153* added value for the heifer under Scandinavian conditions.
Source NAV. *Euro converted to AUD 1/3/2014.

Production traits	Breed Average	Meaning of +10 units
NTM	0	+\$153
Milk Index, kg	8,753	+219 kg
Fat Index, kg	382	+9.9 kg
Fat, %	4.36	+0.12 %
Protein, kg	311	+7.2 kg
Protein, %	3.56	+0.08 %
Growth Rate, weight gain/day	941	+11g/day higher weight gain of bull calves
Calculation of Production Index	-0.25 x Milk + 0.25 x Fat + 1 x Protein	

Health traits	Meaning of +10 units
Daughter fertility. Fertility data from heifers, first, second and third calvers. Includes number of inseminations, interval from calving to 1st insemination, interval between first and last insemination, Non Return Rate.	Days open reduced by 6.6 days and 0.08 less services per pregnancy
Calvings, Sire (Maiden heifers). Based on calving difficulties and number of stillborn calves from first calvers and later lactations of the sire. Information of calf size is also available from Denmark but not included in the index.	Reduction in difficult calvings with 2% and 1% less stillborn calves
Calvings, Daughters (Maiden heifers). Expresses the ability of the bulls' daughters to give birth to a living calf at their first calving. Information of calf size is also available from Denmark but not included in the index.	Reduction in difficult calvings with 2.5% and 1% less stillborn calves
Udder Health. Based on mastitis diagnosis, compulsory reported by vets and from the milk recording scheme, cell-count data and reported cullings due to mastitis. In addition conformation traits like udder depth is used to further increase the accuracy of the index.	1.5% units less mastitis treatments in first lactation, 2.5% less mastitis treatments in second and third lactation
Other diseases. Based on diseases other than mastitis, compulsory reported by vets and culling reports from the milk recording scheme. The diseases are divided in to four different subindexes – early and late fertility disorder, feet and leg problems and metabolic diseases – these four sub-indexes are then weight together to the complete index for Other diseases.	1.5% less treatments for reproduction diseases, metabolic disorders and diseases in hooves, feet and legs in first and second lactation. 2.5% less treatments for the same diseases in third lactation
Hoof Health. Based on lesion scoring reported by hoof trimmers. Includes both infectious and laminitis related lesions with highest weight put on sole ulcer.	Significant decrease in Dermatitis, Heel horn erosion, Sole haemorrhages, Sole ulcer, Corkscrew claw, Limax, White line disease and double sole.
Longevity. The index for longevity describes the genetic ability of the bull's daughters to survive. Bulls with high indexes for longevity breed daughters with a longer productive life. The breeding value for longevity is heavily influenced by fertility, udder health and other diseases, also udder conformation and feet & legs. The value of longevity is a combination of % culled in 1st, 2nd and 3rd and later lactations.	34 days longer productive life

Management traits	Meaning of +10 units
Milking speed. Based on farmers observations and robotic data.	9.5 g Fat + Protein more per minute
Temperament. Based on farmers observations and robotic data.	



Suitable for crossbreeding!

A2/A2

S Valpas

RRP
\$28.00
+ GST

- Equal No. 1 production sire
- Superior daughter fertility
- Strong, capacious cows

NTM +23
+\$352 more profit



64%

NRR after day 56, see page 3

NEW LIMITED



Kantolan Okke / Kangassalon Kelli / Haralan Etro

Herdbook
FINLAND
44412

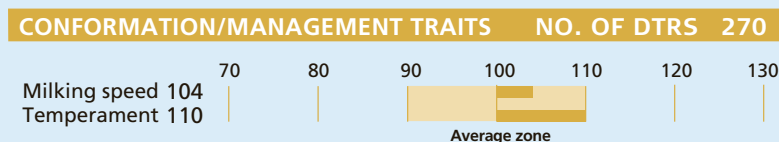
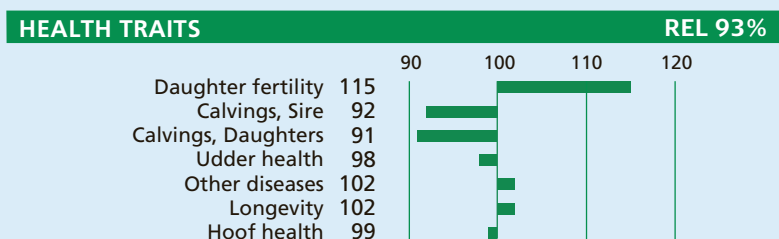
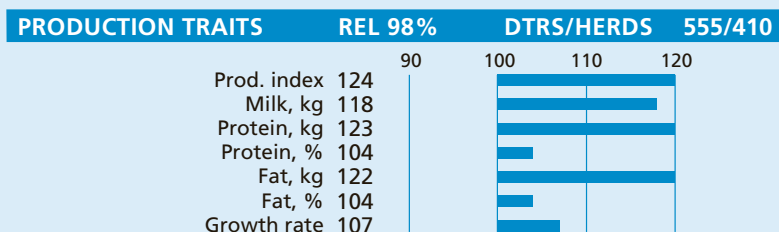
Bull ID
VikValpas

Nasis ID
91UUC01



Nordic Breeding values feb 2014
100 = Breed average

▶▶▶ For key explanations and the value of +10 units (110), see page 37



TOTAL Body 117 Feet&legs 95 Udder 99

Stature	112	tall	Fore udder	97	loose
Dairyness	106	angular	Rear udder height	98	low
Chest width	127	wide	Rear udder width	99	narrow
Body depth	114	deep	Suspensory ligam.	111	strong
Rump width	113	wide	Udder depth	99	deep
Rump angle*	96	low pins	Udder balance	114	high rear
Top line	91	weak	Teat length	94	short
Legs side	113	sickled	Teat thickness	105	thick
Legs rear view	109	parallel	Teat placem. front	93	wide
Foot angle	94	low	Teat placem. rear	104	close

*90 = level. Bold numbers = more than 1 standard deviation from average.



© Elly Geverink

DAM PRODUCTION

Raita
VG85
7 lact
11,776 kg
3.8% F / 428 kg F
3.2% P / 374 kg P

ABV(i) – APRIL 2014

APR	200	F%	0.05
Milk	938	Rel% ASI	69
P kg	26	MS	101
F kg	43	Temp	103
ASI	171	Mammary	101
P%	0.02	Fertility	102

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows		●	
Maiden Heifers			●



*When money talks,
we choose*

VIKINGGENETICS[®]
adding value every day



VR Balfa

RRP
\$26.00
+ GST

**NOW
PROVEN**

NTM +22
+\$337 more profit



67%

NRR after day 56, see page 3



R Bangkok / R Alfa / Vest Baek

Herdbook
DENMARK
36825

Bull ID
VikBalfa

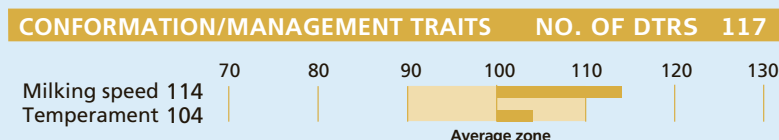
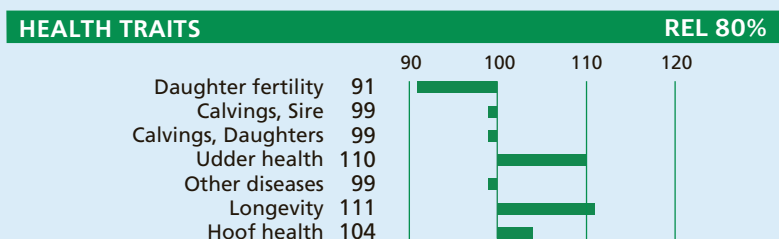
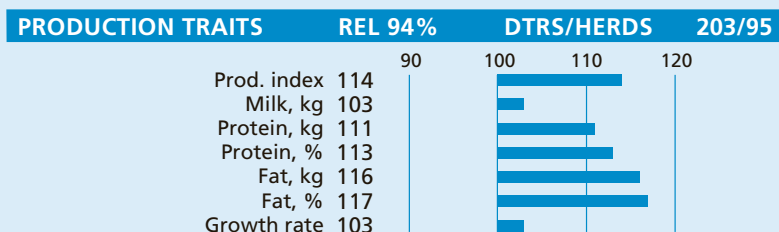
Nasis ID
89UUE09

HF content 17.5%



Nordic Breeding values feb 2014
100 = Breed average

▶▶▶ For key explanations and the value of +10 units (110), see page 37



TOTAL Body 112 Feet&legs 108 Udder 116

Stature	113	tall	Fore udder	114	strong
Dairyness	113	angular	Rear udder height	113	high
Chest width	107	wide	Rear udder width	118	wide
Body depth	127	deep	Suspensory ligam.	117	strong
Rump width	121	wide	Udder depth	112	shallow
Rump angle*	76	high pins	Udder balance	123	high rear
Top line	95	weak	Teat length	92	short
Legs side	107	sickled	Teat thickness	90	thin
Legs rear view	114	parallel	Teat placem. front	114	close
Foot angle	107	steep	Teat placem. rear	112	close

*90 = level. Bold numbers = more than 1 standard deviation from average.



DAM PRODUCTION

Cow 1966
VG88
2 lact
9,194 kg
3.83% F / 352 kg F
3.65% P / 335 kg P

ABV(i) – APRIL 2014

APR	136	F%	0.19
Milk	255	Rel% ASI	68
P kg	11	MS	104
F kg	24	Temp	102
ASI	93	Mammary	109
P%	0.08	Fertility	102

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows		●	
Maiden Heifers			●



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we choose*

VIKINGGENETICS^R
adding value every day



Suitable for
crossbreeding!

G Edbo

RRP
\$24.00
+ GST

- Equal No. 1 production Sire
- Super functional traits
- Shorter, very dairy profitable cows

NTM +22
+\$337 more profit



68%

NRR after day 56, see page 3



Botans / Abru / Hulan

Herdbook
SWEDEN
92263

Bull ID
GEdb02263

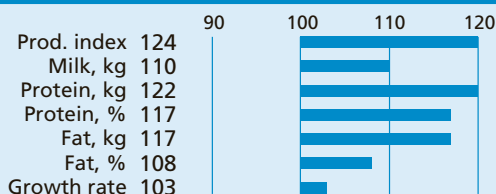
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87UUZ08



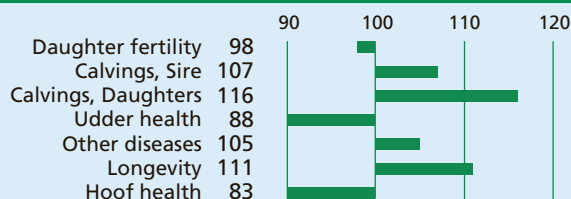
Nordic Breeding values feb 2014
100 = Breed average

▶▶▶ For key explanations and the value of +10 units (110), see page 37

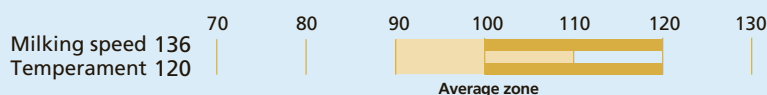
PRODUCTION TRAITS REL 99% DTRS/HERDS 4950/1744



HEALTH TRAITS REL 99%



CONFORMATION/MANAGEMENT TRAITS NO. OF DTRS 2178



TOTAL Body 85 Feet&legs 97 Udder 91

Stature	84 short	Fore udder	96 loose
Dairyness	112 angular	Rear udder height	102 high
Chest width	77 narrow	Rear udder width	95 narrow
Body depth	100 deep	Suspensory ligam.	97 weak
Rump width	103 wide	Udder depth	91 deep
Rump angle*	107 low pins	Udder balance	105 high rear
Top line	100 strong	Teat length	93 short
Legs side	112 sickled	Teat thickness	94 thin
Legs rear view	90 hock in	Teat placem. front	111 close
Foot angle	86 low	Teat placem. rear	110 close

*90 = level. Bold numbers = more than 1 standard deviation from average.



DAM PRODUCTION

1131 Eda
VG87
8 lact
9,420 kg
4.6% F / 405 kg F
3.7% P / 349 kg P

ABV(i) – APRIL 2014

APR	225	F%	0.10
Milk	467	Rel% ASI	79
P kg	22	MS	111
F kg	27	Temp	104
ASI	154	Mammary	100
P%	0.17	Fertility	100

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows	●		
Maiden Heifers	●		



*When money talks,
we choose*

VIKINGGENETICS[®]
adding value every day



VR Cigar

RRP
\$26.00
+ GST

- Stylish, powerful cows with lovely udders.
- Good production and longevity
- High scores for feet and legs

NTM +22
+\$337 more profit



69%

NRR after day 56, see page 3



R Cirkel / R Alfa / Fyn Cent

Herdbook
DENMARK
36678

Bull ID
VikCigar

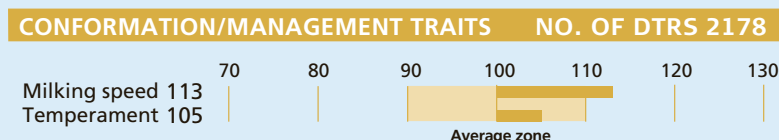
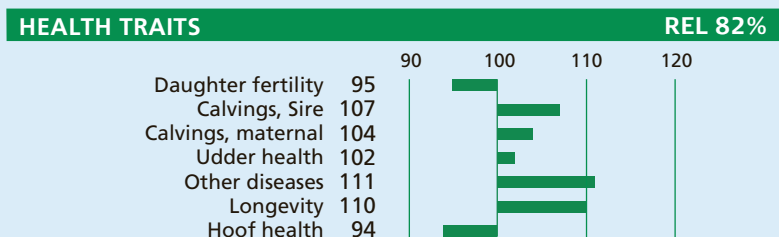
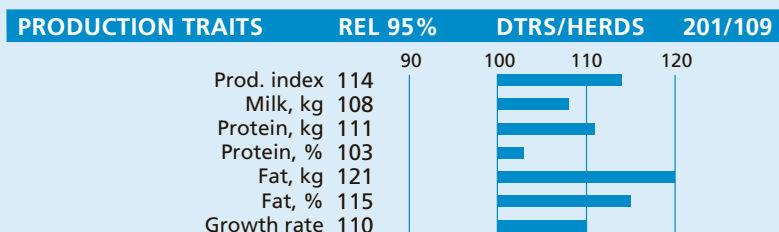
Nasis ID
89UUD02

HF content 21%



Nordic Breeding values feb 2014
100 = Breed average

►►► For key explanations and the value of +10 units (110), see page 37



TOTAL Body 112 Feet&legs 119 Udder 111

Stature	110	tall	Fore udder	118	strong
Dairyness	103	angular	Rear udder height	117	high
Chest width	105	wide	Rear udder width	117	wide
Body depth	109	deep	Suspensory ligam.	125	strong
Rump width	117	wide	Udder depth	107	shallow
Rump angle*	87	high pins	Udder balance	100	high rear
Top line	92	weak	Teat length	81	short
Legs side	88	posty	Teat thickness	79	thin
Legs rear view	116	parallel	Teat placem. front	122	close
Foot angle	119	steep	Teat placem. rear	126	close

*90 = level. Bold numbers = more than 1 standard deviation from average.



DAM PRODUCTION

Cow 2228
3 lact
11,402 kg
4.2% F / 474 kg F
3.4% P / 393 kg P

ABV(i) – APRIL 2014

APR	146	F%	0.17
Milk	650	Rel% ASI	68
P kg	17	MS	104
F kg	39	Temp	101
ASI	123	Mammary	108
P%	-0.01	Fertility	98

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows	●		
Maiden Heifers		●	



*When money talks,
we choose*

VIKINGGENETICS[®]
adding value every day



Suitable for
crossbreeding!

A2/A2

R Haslev

RRP
\$24.00
+ GST

- Excellent functional traits
- Hoof health and feet and legs
- Good udders with longer teats

NTM +19
+\$291 more profit



60%

NRR after day 56, see page 3



Orraryd / SYD Garant / Torpane

Herdbook
DENMARK
36558

Bull ID
VikHaslev

Nasis ID
89UUC01



Nordic Breeding values feb 2014
100 = Breed average

▶▶▶ For key explanations and the value of +10 units (110), see page 37

PRODUCTION TRAITS		REL 96%	DTRS/HERDS		259/121
		90	100	110	120
Prod. index	106				
Milk, kg	101				
Protein, kg	105				
Protein, %	105				
Fat, kg	106				
Fat, %	105				
Growth rate	100				

HEALTH TRAITS		REL 87%			
		90	100	110	120
Daughter fertility	112				
Calvings, Sire	95				
Calvings, Daughters	117				
Udder health	106				
Other diseases	94				
Longevity	103				
Hoof health	114				

CONFORMATION/MANAGEMENT TRAITS		NO. OF DTRS		114				
		70	80	90	100	110	120	130
Milking speed	123							
Temperament	116							
		Average zone						

TOTAL Body 111 Feet&legs 113 Udder 110

Stature	114	tall	Fore udder	91	loose
Dairyness	112	angular	Rear udder height	102	high
Chest width	83	narrow	Rear udder width	100	wide
Body depth	82	shallow	Suspensory ligam.	110	strong
Rump width	103	wide	Udder depth	116	shallow
Rump angle*	95	low pins	Udder balance	116	high rear
Top line	100	strong	Teat length	103	long
Legs side	105	sickled	Teat thickness	95	thin
Legs rear view	117	parallel	Teat placem. front	110	close
Foot angle	106	steep	Teat placem. rear	105	close

*90 = level. Bold numbers = more than 1 standard deviation from average.



DAM PRODUCTION

Cow 1334
4 lact
11,453 kg
3.89% F / 445 kg F
3.70% P / 423 kg P

ABV(i) – APRIL 2014

APR	168	F%	0.05
Milk	220	Rel% ASI	69
P kg	9	MS	107
F kg	13	Temp	104
ASI	67	Mammary	107
P%	0.07	Fertility	104

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows		●	
Maiden Heifers			●

*When money talks,
we choose*

VIKINGGENETICS^R
adding value every day



R Fastrup

SEXED
SEMEN
\$60.00
+ GST

RRP
\$25.00
+ GST

- Superior longevity
- No. 1 for feet and legs and hoof health combined
- Cow Fertility

NTM +18
+\$275 more profit



69%

NRR after day 56, see page 3



Orraryd / Stadel / OJY Ladby

Herdbook
DENMARK
36412

Bull ID
Fastrup

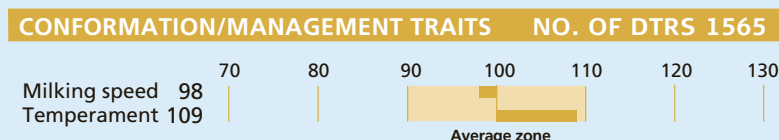
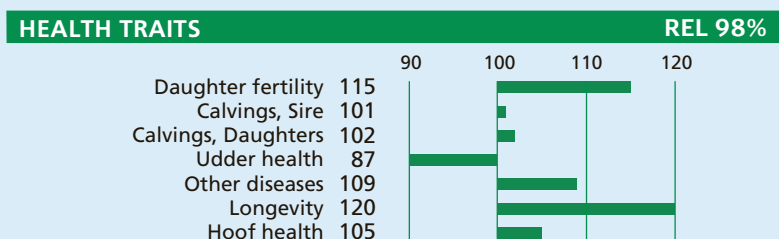
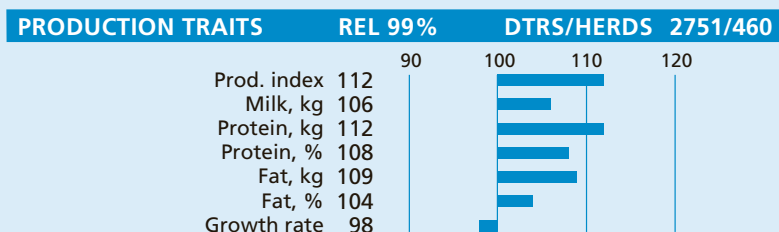
Nasis ID
89UUA02

HF content 28%



Nordic Breeding values feb 2014
100 = Breed average

▶▶▶ For key explanations and the value of +10 units (110), see page 37



TOTAL Body 106 Feet&legs 125 Udder 107

Stature	106	tall	Fore udder	105	strong
Dairyness	116	angular	Rear udder height	111	high
Chest width	90	narrow	Rear udder width	113	wide
Body depth	100	deep	Suspensory ligam.	93	weak
Rump width	95	narrow	Udder depth	106	shallow
Rump angle*	81	high pins	Udder balance	107	high rear
Top line	99	weak	Teat length	100	long
Legs side	88	posty	Teat thickness	101	thick
Legs rear view	121	parallel	Teat placem. front	98	wide
Foot angle	108	steep	Teat placem. rear	92	wide

*90 = level. Bold numbers = more than 1 standard deviation from average.



DAM PRODUCTION

Cow 2102
VG89
4 lact
11,183 kg
4.51% F / 504 kg F
3.57% P / 399 kg P

ABV – APRIL 2014

APR	174	F%	0.01
Milk	289	Rel% ASI	86
P kg	13	MS	97
F kg	13	Temp	101
ASI	86	Mammary	105
P%	0.10	Fertility	107

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows	●		
Maiden Heifers	●		



*When money talks,
we choose*

VIKINGGENETICS[®]
adding value every day



Suitable for crossbreeding!

VR Solero

RRP
\$24.00
+ GST

- High APR Aussie Proof
- Milk and Components
- Good milking speed and temperament

NTM +18
+\$275 more profit



64%

NRR after day 56, see page 3



Sorby / Orraryd / G Ross

Herdbook
SWEDEN
92851

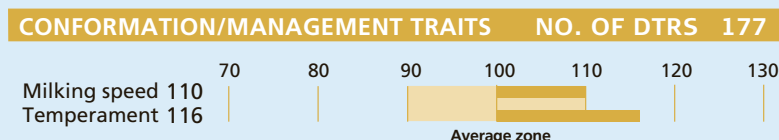
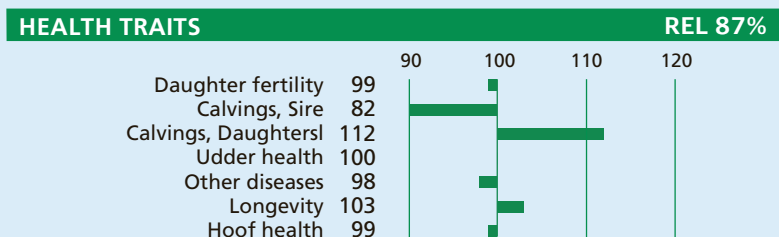
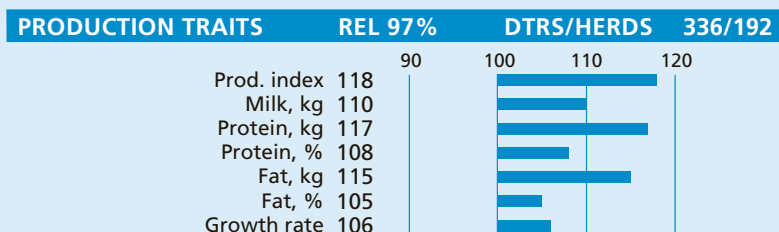
Bull ID
VRSolero

Nasis ID
87UUD07



Nordic Breeding values feb 2014
100 = Breed average

▶▶▶ For key explanations and the value of +10 units (110), see page 37



TOTAL Body 93 Feet&legs 105 Udder 104

Stature	93 short	Fore udder	107 strong
Dairyness	85 strong	Rear udder height	107 high
Chest width	106 wide	Rear udder width	112 wide
Body depth	103 deep	Suspensory ligam.	98 weak
Rump width	105 wide	Udder depth	98 deep
Rump angle*	77 high pins	Udder balance	118 high rear
Top line	84 weak	Teat length	101 long
Legs side	105 sickled	Teat thickness	106 thick
Legs rear view	110 parallel	Teat placem. front	90 wide
Foot angle	102 steep	Teat placem. rear	80 wide

*90 = level. Bold numbers = more than 1 standard deviation from average.

DAM PRODUCTION

460 Blomma
4 lact
7,313 kg
4.5% F / 329 kg F
3.6% P / 261 kg P

ABV – APRIL 2014

APR	199	F%	0.12
Milk	490	Rel% ASI	82
P kg	22	MS	103
F kg	29	Temp	104
ASI	156	Mammary	104
P%	0.16	Fertility	102

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows		●	
Maiden Heifers			●



*When money talks,
we choose*

VIKINGGENETICS^R
adding value every day



SEXED
SEMEN
\$60.00
+ GST

RRP
\$26.00
+ GST

R David

- High reliability Sire
- Long lasting cows
- Strong conformation and functional traits



FYN Aks / Tor Bruno / OJY Mabru

Herdbook
**DENMARK
36099**

Bull ID
**Randers-
David**

Nasis ID
89UUY02

HF content 25%

Nordic Breeding values feb 2014
100 = Breed average



68%

NRR after
day 56,
see page 3



NTM +17 +\$260 more profit

DAM PRODUCTION

**Cow 876
VG87
5 lact
10,541 kg
3.56% F / 375 kg F
3.44% P / 363 kg P**

ABV – APRIL 2014

APR	152	F%	-0.45
Milk	857	Rel% ASI	90
P kg	18	MS	102
F kg	5	Temp	100
ASI	64	Mammary	104
P%	-0.10	Fertility	103

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows	●		
Maiden Heifers		●	

►►► For key explanations and the value of +10 units (110), see page 37

PRODUCTION TRAITS REL 99% DTRS/HERDS 10910/1822

Prod. index	110	90	100	110	120
Milk, kg	115				
Protein, kg	112				
Protein, %	93				
Fat, kg	107				
Fat, %	91				
Growth rate	111				

HEALTH TRAITS REL 99%

Daughter fertility	105	90	100	110	120
Calvings, Sire	98				
Calvings, Daughters	105				
Udder health	94				
Other diseases	108				
Longevity	123				
Hoof health	109				

CONFORMATION/MANAGEMENT TRAITS NO. OF DTRS 5969

Milking speed	108	70	80	90	100	110	120	130
Temperament	119							

Average zone

TOTAL Body 107 Feet&legs 113 Udder 107

Stature	108	tall	Fore udder	110	strong
Dairyness	102	angular	Rear udder height	119	high
Chest width	91	narrow	Rear udder width	118	wide
Body depth	96	shallow	Suspensory ligam.	95	weak
Rump width	110	wide	Udder depth	109	shallow
Rump angle*	94	low pins	Udder balance	107	high rear
Top line	91	weak	Teat length	91	short
Legs side	85	posty	Teat thickness	90	thin
Legs rear view	109	parallel	Teat placem. front	94	wide
Foot angle	107	steep	Teat placem. rear	92	wide

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



adding value every day

A2/A2

Suitable for crossbreeding!

R Facet

- Stylish, tall and angular
- Superb udders, 5,409 daughters classified
- High daughter fertility



K Jerry / Vaettergard / Ojy Ladby

Herdbook
**DENMARK
36324**

Bull ID
VikFacet

Nasis ID
89UUA03

Nordic Breeding values feb 2014
100 = Breed average



66%

NRR after
day 56,
see page 3



NTM +14 +\$214 more profit

DAM PRODUCTION

**Cow 1409
EX91
4 lact
9,072 kg
4.69% F / 426 kg F
3.43% P / 311 kg P**

ABV(i) – APRIL 2014

APR	69	F%	0.05
Milk	-68	Rel% ASI	74%
P kg	-2	MS	103
F kg	0	Temp	100
ASI	-6	Mammary	106
P%	0	Fertility	103

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows		●	
Maiden Heifers			●

►►► For key explanations and the value of +10 units (110), see page 37

PRODUCTION TRAITS REL 99% DTRS/HERDS 13404/3917

Prod. index	99	90	100	110	120
Milk, kg	95				
Protein, kg	98				
Protein, %	107				
Fat, kg	97				
Fat, %	103				
Growth rate	79				

HEALTH TRAITS REL 99%

Daughter fertility	110	90	100	110	120
Calvings, Sire	94				
Calvings, Daughters	112				
Udder health	106				
Other diseases	90				
Longevity	110				
Hoof health	108				

CONFORMATION/MANAGEMENT TRAITS NO. OF DTRS 5409

Milking speed	111	70	80	90	100	110	120	130
Temperament	103							

Average zone

TOTAL Body 117 Feet&legs 107 Udder 124

Stature	117	tall	Fore udder	120	strong
Dairyness	119	angular	Rear udder height	118	high
Chest width	85	narrow	Rear udder width	119	wide
Body depth	104	deep	Suspensory ligam.	108	strong
Rump width	121	wide	Udder depth	119	shallow
Rump angle*	91	low pins	Udder balance	101	high rear
Top line	120	strong	Teat length	94	short
Legs side	86	posty	Teat thickness	115	thick
Legs rear view	110	parallel	Teat placem. front	111	close
Foot angle	102	steep	Teat placem. rear	120	close

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



adding value every day

R Bangkok

- Exceptional Udder Health
- Easy calving daughters
- Powerful chest and body scores

SEXED SEMEN
\$60.00
+ GST

RRP
\$18.00
+ GST



A2/A2

Suitable for crossbreeding!

RRP
\$28.00
+ GST

A Tosikko

- No. 1 Australian Red Proven Sire
- Lovely temperament
- Good fore and rear udder attachments

No. 1 Aussie Proven



Herdbook
DENMARK
35965

Bull ID
R BANGKOK

Nasis ID
89UUW03

HF content 25%



67%

NRR after
day 56,
see page 3



T Fjembe / Tor Bruno / Ojy Mabru

Nordic Breeding values feb 2014
100 = Breed average



Herdbook
FINLAND
43642

Bull ID
ATosikko

Nasis ID
91UUA03



65%

NRR after
day 56,
see page 3

Lammin Life / Ristitien Johde / Skole

Nordic Breeding values feb 2014
100 = Breed average

NTM +13 +\$199 more profit

DAM PRODUCTION

ABV – APRIL 2014

Cow 1270
2 lact
11,097 kg
4.02% F / 446 kg F
3.46% P / 384 kg P

APR	129	F%	-0.09
Milk	234	Rel% ASI	94
P kg	4	MS	98
F kg	4	Temp	104
ASI	12	Mammary	108
P%	-0.05	Fertility	102

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows			●
Maiden Heifers			●

►►► For key explanations and the value of +10 units (110), see page 37

PRODUCTION TRAITS REL 99% DTRS/HERDS 6767/1310

Prod. index	107	90	100	110	120
Milk, kg	106				
Protein, kg	106				
Protein, %	99				
Fat, kg	109				
Fat, %	104				
Growth rate	124				

HEALTH TRAITS REL 99%

Daughter fertility	91	90	100	110	120
Calvings, Sire	85				
Calvings, Daughters	114				
Udder health	122				
Other diseases	102				
Longevity	115				
Hoof health	91				

CONFORMATION/MANAGEMENT TRAITS NO. OF DTRS 4105

Milking speed	94	70	80	90	100	110	120	130
Temperament	110							

Average zone

TOTAL Body 104 Feet&legs 102 Udder 104

Stature	102	tall	Fore udder	115	strong
Dairyness	93	strong	Rear udder height	98	low
Chest width	120	wide	Rear udder width	116	wide
Body depth	127	deep	Suspensory ligam.	114	strong
Rump width	119	wide	Udder depth	104	shallow
Rump angle*	84	high pins	Udder balance	112	high rear
Top line	78	weak	Teat length	87	short
Legs side	104	sickled	Teat thickness	75	thin
Legs rear view	106	parallel	Teat placem. front	110	close
Foot angle	107	steep	Teat placem. rear	107	close

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



adding value every day

NTM +12 +\$184 more profit

DAM PRODUCTION

ABV – APRIL 2014

Asmo Riga
VG85
1 lact
9,784 kg
4.1% F / 397 kg F
3.10% P / 303 kg P

APR	234	F%	0.06
Milk	718	Rel% ASI	89
P kg	23	MS	100
F kg	35	Temp	105
ASI	154	Mammary	105
P%	0.07	Fertility	99

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows	●		
Maiden Heifers		●	

►►► For key explanations and the value of +10 units (110), see page 37

PRODUCTION TRAITS REL 99% DTRS/HERDS 6217/3007

Prod. index	117	90	100	110	120
Milk, kg	113				
Protein, kg	117				
Protein, %	102				
Fat, kg	117				
Fat, %	104				
Growth rate	99				

HEALTH TRAITS REL 99%

Daughter fertility	87	90	100	110	120
Calvings, Sire	90				
Calvings, Daughters	81				
Udder health	104				
Other diseases	84				
Longevity	108				
Hoof health	104				

CONFORMATION/MANAGEMENT TRAITS NO. OF DTRS 2119

Milking speed	101	70	80	90	100	110	120	130
Temperament	118							

Average zone

TOTAL Body 98 Feet&legs 94 Udder 110

Stature	89	short	Fore udder	116	strong
Dairyness	106	angular	Rear udder height	112	high
Chest width	109	wide	Rear udder width	123	wide
Body depth	111	deep	Suspensory ligam.	102	strong
Rump width	96	narrow	Udder depth	103	shallow
Rump angle*	88	high pins	Udder balance	110	high rear
Top line	95	weak	Teat length	103	long
Legs side	110	sickled	Teat thickness	102	thick
Legs rear view	96	hock in	Teat placem. front	84	wide
Foot angle	98	low	Teat placem. rear	99	wide

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



adding value every day



Suitable for crossbreeding!

RRP
\$20.00
+ GST

A Andrei

- High production
- Lovely bodied cows with wide rumps
- Excellent calf growth rates



Herdbook
FINLAND
45030

Bull ID
VikAndrei
Nasis ID
87UUE11



66%

NRR after
day 56,
see page 3

H Ponnistus / T Miqur / K Kelli

Nordic Breeding values feb 2014
100 = Breed average

NTM +12 +\$184 more profit

DAM PRODUCTION

Tammi ET
5 lact
12,742 kg
3.9% F / 492 kg F
3.3% P / 421 kg P

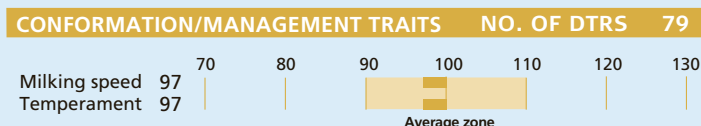
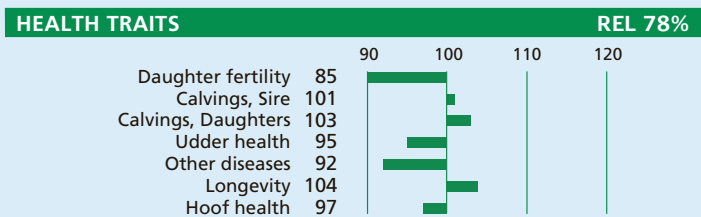
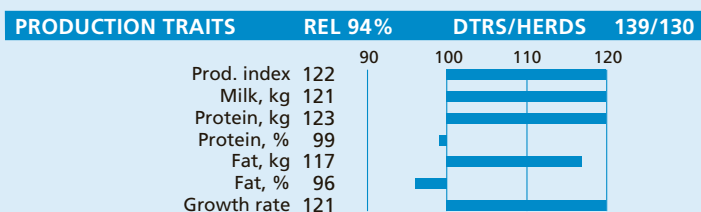
ABV(i) – APRIL 2014

APR	210	F%	-0.10
Milk	1167	Rel% ASI	68%
P kg	33	MS	99
F kg	43	Temp	100
ASI	200	Mammary	101
P%	0.03	Fertility	97

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows	●		
Maiden Heifers		●	

►►► For key explanations and the value of +10 units (110), see page 37



TOTAL Body 103 Feet&legs 90 Udder 97

Stature	105 tall	Fore udder	87 loose
Dairyness	108 angular	Rear udder height	106 high
Chest width	110 wide	Rear udder width	97 narrow
Body depth	95 shallow	Suspensory ligam.	107 strong
Rump width	119 wide	Udder depth	94 deep
Rump angle*	100 low pins	Udder balance	97 low rear
Top line	83 weak	Teat length	100 long
Legs side	104 sickled	Teat thickness	115 thick
Legs rear view	91 hock in	Teat placem. front	103 close
Foot angle	109 steep	Teat placem. rear	108 close

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



adding value every day

Suitable for crossbreeding!

RRP
\$18.00
+ GST

VR Gibson

- Long lasting cows
- No. 1 calving ease sire over maiden heifers
- Great for crossbreeding



Herdbook
SWEDEN
92979

Bull ID
VikGibson
Nasis ID
87UUE10



63%

NRR after
day 56,
see page 3

Gunnarstorp / O Brolin R / Peterslund

Nordic Breeding values feb 2014
100 = Breed average

NTM +7 +\$107 more profit

DAM PRODUCTION

757 Ursula
5 lact
10,281 kg
4% F / 411 kg F
3.50% P / 360 kg P

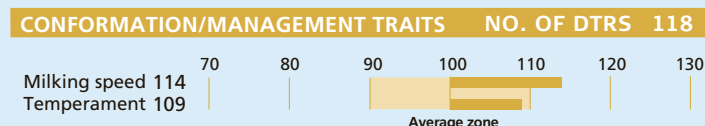
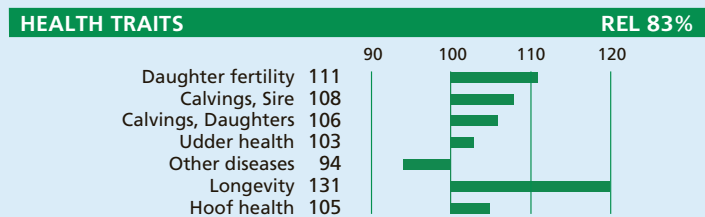
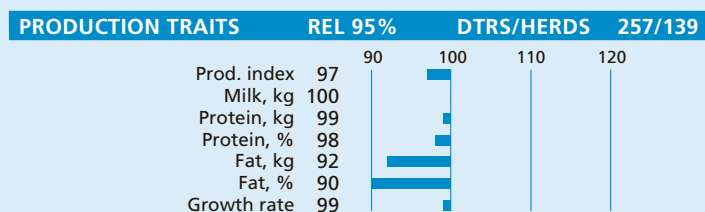
ABV(i) – APRIL 2014

APR	116	F%	-0.17
Milk	209	Rel% ASI	68
P kg	6	MS	104
F kg	-3	Temp	102
ASI	24	Mammary	100
P%	0.01	Fertility	106

CALVING EASE GUIDE FOR USE ON COWS AND MAIDEN HEIFERS (CONV. SEMEN)

	Easy	Average	Harder
Cows	●		
Maiden Heifers	●		

►►► For key explanations and the value of +10 units (110), see page 37



TOTAL Body 84 Feet&legs 111 Udder 98

Stature	89 short	Fore udder	100 strong
Dairyness	111 angular	Rear udder height	103 high
Chest width	81 narrow	Rear udder width	95 narrow
Body depth	83 shallow	Suspensory ligam.	105 strong
Rump width	93 narrow	Udder depth	113 shallow
Rump angle*	108 low pins	Udder balance	109 high rear
Top line	97 weak	Teat length	81 short
Legs side	104 sickled	Teat thickness	73 thin
Legs rear view	105 parallel	Teat placem. front	104 close
Foot angle	90 low	Teat placem. rear	104 close

*90 = level.
Bold numbers =
more than 1
standard deviation
from average.



adding value every day

Sire comments VikingRed



VR NERO-PP
(Nora Prastgard / Andersta x N Oopium)

Nero is a lovely polled dark red sire and will be great for those who love the deep red cows. He is fully polled so 100% of his progeny will be polled. Nero also has a nice "engine room" and daughters will have good strength, nice tall milkers with good feet and legs and longer teats with good udders. Nero – PP offers new sire lines as well through the paternal side and can be used anywhere except on Andersta daughters.



VR CIGAR
(R Cirkel / R Alfa / Fyn Cent)

The Dam of VR Cigar was a R Alfa cow who produced over 50,000kg of milk from four lactations, she was flushed three times resulting in 12 embryos of A Linne 13 embryos of Nora Prastgard and 16 embryos of R Fastrup since Autumn 2012. VR Cigar has been the most popular sire in the Viking population and No. 1 Export Sire for 2013. Cigar can be used in most situations except for VR Balfa as both sires are from R Alfa cows. Protect over cows with short teats. Cigar would go well over Peterslund, Fastrup, Edbo, A Linne, Tosikko, Facet and Haslev daughters.



ASMO ANDREI
(H Ponnistus / T Miqur / K Kelli)

Andrei's Dam, Tammi ET has a lifetime production of 78,000kg milk doing 12,700kgs on her best, she has also been flushed six times. Andrei is a production specialist and offers some different bloodlines. Andrei can be used in most pedigrees except V Foske who is sired by Miqur. Andrei cows will have plenty of strength and wide rumps and will go best over cows that need a production boost and are sound in the fore udder. Good matings would be over A Linne, R Facet, Peterslund, Fastrup, K Lens, S Adam daughters.



S VALPAS
(K Okke / K Kelli / H etro)

S Valpas is a great sire to boost production, his dam produced almost 80,000kg of milk in her lifetime. His proof is very reliable with 555 daughters and he has excellent daughter fertility. His daughters have plenty of power with high ratings for chest and body and good rump width. Udders are breed average which is good and they are well supported with a strong ligament. Valpas leaves big strong calves and is not recommended to use over maiden heifers. Valpas will go well over Peterslund, Edbo, Foske, Fastrup, Linne, Facet and Haslev daughters.



R FACET
(K Jerry / Vaettergard / Ojy Ladby)

R Facet breeds beautiful tall daughters with top udders combined with great daughter fertility and udder health. He is a great choice for those wanting the "fancy cows" and will go nicely over the shorter high production cows like Juby, Edbo, Botans, Tosikko, Ullimulli or over your Davids, Fastrup, Linne, Cigar, Bangkok, Balfa if you are trying to breed a "show winner". R Facet has been used all over the world for these kind of matings and should have a place in every Red Herd.



R HASLEV
(Orraryd / Syd Garant / Torpane)

R Haslev now has 259 daughters in his proof and has remained rock solid. He breeds taller more angular daughters with fantastic feet and legs and hoof health, his udders are also a feature of this quality sire, production is good combined with high scores for milking speed and temperament. Haslev will join well over V Foske, Tosikko, Bangkok, David, Botans and Juby most situations where there is no Orraryd in the fore of the pedigree.



VR BALFA
(R Bangkok / R Alfa / Vest Baek)

He has been sold here as a genomic sire for the last two years and now has the same NTM +22 with 203 daughters in his proof as his genomic prediction. Balfa's pedigree is very Danish and like his sire, breeds very powerful cows through the body with very good feet and legs. Moderate production with strong udder health and longevity. Balfa would go well on daughters of G Edbo, Peterslund, Botans, Fastrup, David, Foske and most others except Bangkok and VR Cigar who is also from a R Alfa cow.



VR HAMBO
(R Haslev / G Edbo / Peterslund)

Hambo is typical of our genomic team, another strong "engine room" (production and health traits, the profit drivers). Hambo is our only R Haslev son and has the great Peterslund as his grand dam and G Edbo as his dam, so he is full of high performance bloodlines. He even carried Orraryd and 882 Torpane on the paternal side. Milking speed and temperament will also be a feature of this sire, as well as feet and legs and udders. Hambo will be safe for most matings except directly over Haslev or G Edbo daughters.



V FOSKE
(Miquir / Gardo / Tunnus)

Foske now has 2,477 daughters in his viking proof and many many more to come. He is a super daughter fertility and longevity sire. Daughters are in milk here as well and the comments are very, very positive; quiet heifers with lovely type and good functional udders and are milking like crazy! V Foske comes from the Viken herd out of the Lilj cow family. This family has given us also the new proven bull Saxebyn. V Foske should work well over most bloodlines as he is a nice outcross, but in particular, Peterslund and Andersta where a bit more body capacity is needed.



R DAVID
(Fyn Aks / T-Bruno / Ojy Mabru)

Top Aussie proven sire for the last two years, only limited semen left of this great bull. He breeds strong cows with good type. The daughters have good fertility and superior longevity. He is a wonderful sire and should be widely used, and sired of course by the very popular Fyn Aks. Use him on anything that does not have T Bruno in the fore of his pedigree, particularly good on lower milk cows. His udder health has also improved from 90 to 94 and all other health traits are strong. R Davids' have nice udders and very sound feet and legs. Herd longevity has been a feature of David's daughters all over the world. He was the first sire of any breed in Holland to push through the +1,000 days for longevity.



VR SOLERO
(Sorby / Orraryd / G Ross)

VR Solero was ranked No. 2 on Red ABV's last year. His high production coupled with medium sized lovely capacious cows with teat size being a little thicker is seen as ideal. Solero's sire, Sorby, was not used here but was very successfully used in New Zealand. He will be good for another line where Orraryd is not present in the fore of the pedigree. Sorby is another example of success with genomics as he was selected for use here on his genomic profile and rose to No. 2 daughter proven. He is not for use on maiden heifers but no problem on cows. Milking speed and temperament are very good and is a must use sire for most herds. Solero will be a good bull in most situations but protect over cows that already have high pins.



VR ULTIMO
(Ullimulli / Gunnarstorp / O Brolin)

Lovely red and white sire that should leave colourful calves. His sire, Ullimulli, was a limited use Sire here and his semen sold quickly. Ultimo has a fantastic "engine room" (production and health traits, the profit drivers) which is not surprising with 3 generations of sires strong in these areas. Ultimo's daughters will be a little taller with good strength and lovely udders. Feet and legs will also be nice. Again a great Sire to use over almost anything except for Ullimulli.

Sire comments VikingRed



G EDBO **(Botans / Abru / Hulan)**

Edbo now has 4,950 daughters in his Viking proof and still maintains a high ranking NTM of +22. Australian daughters are now milking also and the feedback is very positive, smaller very hardworking heifers with nice udders. G Edbo is a great production bull with extremely high components. He is also a calving ease sire who has low still birth figures as well. Functional traits like milking speed and temperament are on top. G Edbo has the same fantastic Abru cow dam as Gunnarstorp. G Edbo leaves smaller stature cows and should work well over taller cows with good udders like Orraryd, K Lens and Ascona.



R FASTRUP **(Orraryd / Stadel / Ojy Ladby)**

R Fastrup daughters now in milk here and owners are very happy. Medium sized cows with a will to produce and good udders and very good feet and legs. Fastrup now has 2,751 daughters in his Viking proof and has super daughter fertility and longevity. Fastrup breeds high yielding dairy type daughters with excellent longevity. Strong feet and legs with claw health well above average make him a perfect choice for use in large commercial herds. Fastrup is suitable for most bloodlines without Orraryd and is the type of sire that would be safe over most cows, just note that his pin score of 81 is about level so do not use him on cows that are high in the pins.



VR FERGUS – GENOMIC **(R Facet / R David / Orraryd)**

VR Fergus is a high ranking genomic sire. He is a sire breeding top longevity. His daughters have good production combined with female fertility and udder health. Furthermore they are easy to handle and give their milk fast. Udder quality is on top. Fergus will be great on most matings except David and Orraryd further back (but that could be line breeding). Possibly don't use on lighter bodied cows like Peterslund, Andersta and R Haslev. The dam of VR Fergus is classified Ex90 and has an average so far of 10,629kg milk at 4.3% F and 3.5% P.



VR UUDIN **(Ullimulli / Ooppium / Lammin Life)**

Uudin is an ET Sired by Ullimulli who has given Viking many genomic candidates. Ullimulli comes from the same cow family as the No. 1 proven sire Buckarby. Uudin's dam has an average of over 10,000 ltrs per lactation with the best being 14,000 ltrs at 4.8%F and 3.3%P 1,134kg milk solids! Uudin broke a record in the Viking population in July 2013 for the first time a genomic sire had the No. 1 Sales in a month including all proven and genomic sires. Uudin as with most of our genomic team excels in the "engine room" (production and health traits, the profit drivers) maintains ideal body and excellent udders, great to use on all lines except Ullimulli.



VR FLAME **(V Foske / Gunnarstorp / O Brolin)**

Flame is the highest rated Foske son and is a lovely red and white bull, he has nice production and health. Like Ultimo Flame's dam is by Gunnarstorp who was a fantastic sire for health and udders. Daughters should be medium sized with sound udders, health and production which stay in herds a long time. If feet and legs held you back using V Foke then Flame should be the sire to use as he has longer teats than Foske as well.



BUCKARBY
(O Brolin / Peterslund / Stensjo)

Buckarby is the top proven red sire with an NTM of +31. He started his career as one of the first Genomic sires in the Red programme. His Dam 492 Dora has calved six times and has averaged 9,150 ltr 5.1% F 467 kg fat 3.9% P 356kg protein. Buckarby has increased his NTM with over three hundred daughters added to his proof from last year. He truly has the powerful "engine room", nice production combined with a fantastic health profile. Buckarby has a good udder score as he is strong in the two most influential areas that are most important for long lasting udders with fore udder and udder depth. Buckarby's pedigree are proven lines here and will work well on most cows without O Brolin or Peterslund in their pedigree like V Foske, Fastrup, Bangkok, R David and G Edbo.



VR GIBSON
(Gunnarstorp / O Brolin / Peterslund)

VR Gibson has dropped considerably from his original genomic prediction and this is an example of why we should use a team of genomic sires rather than getting excited over one particular sire. We have kept Gibson in our team as he is a sire ideal for a crossbreeding programme as he has strong health traits with a super longevity score of 131! VR Gibson also has very good daughter fertility, milking speed and temperament, shallow udders with good teat placement, also excellent feet and legs and hoof health. Calving ease is another strong point for Gibson as he is our best calving ease Red Sire for smaller calves and his daughters grow well and calve easily themselves, making him the No. 1 choice for use on maiden heifers and a high priority choice in crossbreeding as he has the qualities crossbreeders are looking for.



ASMO TOSIKKO
(Lammin life / Ristitien Johde / Skole)

Tosikko now has 6,217 daughters in his Viking proof with numbers still increasing. Daughters are milking here also and many are going to re-use him this year as they like his daughters so much, high producing heifers with lovely udders. Asmo Tosikko's daughters are high yielding cows with positive components and great persistency. They also have superior udder health. Udder conformation, especially fore udder attachment as well as rear udder are very good. Daughters have a lovely temperament. Asmo Tosikko is an outcross sire to use on almost any cows but protect a little on fertility and this is not really a sire for maiden heifers (conventional semen) sexed is OK. Asmo Tosikko would be well used on the high fertility bloodlines like Peterslund, R David, J Valon, Juby, Andersta and O Brolin. Maybe even a few old Torpane 882 or Largard cows still in herds.



R Facet daughter, Supreme Champion All breeds, Avelskon i Väst Show, Sweden 2014.



CROSSBREEDING WITH VIKINGRED IS **INCREASING** ALL OVER THE WORLD

The unique qualities of the VikingRed makes it the obvious choice for the commercial dairy herd of today, demanding efficient cows that can take care of themselves.

When you crossbreed you utilize the benefits from hybrid vigor. Often the traits you like to improve are longevity, fertility and health. Crossbreeding with VikingRed is a perfect choice as the breed has its strength in these areas, due to selection for health and fertility for more than forty years in the Scandinavian countries.



THE STRONGEST RED BREEDING PROGRAM IN THE WORLD

VikingGenetics has the world's strongest red breeding program – VikingRed.

The three very impressive breeds – Finnish Ayrshire, Swedish Red and Danish Red – share the same selection program and breeding goal: the economic cow. For that reason we list them as one breed – VikingRed.

The total number of VikingRed cows in milk recording in the three Nordic countries is 310,000 and VikingGenetics progeny tests more than 200 bulls annually. Selection is intensive and reliable thanks to genomic testing based on the largest red reference group in the world.



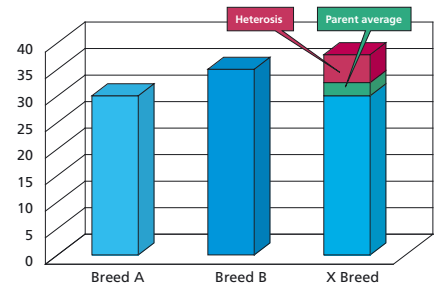
RAPID GENETIC PROGRESS

Crossbreeding is designed to help you to achieve rapid genetic progress within your herd for **fertility, health, cell count and longevity**. All these key areas have an impact on the profitability of your dairy business. Crossbreeding gives you the highest probability of genetic gain through the effect of heterosis.

Heterosis

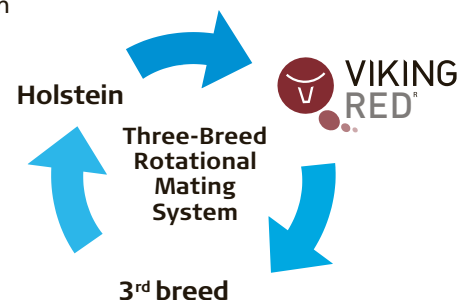
The effects of heterosis are the opposite of the effect of inbreeding depression. At each location of the pairs of chromosomes the two genes are much less likely to be identical with crossbreeding than with same-breed matings. Therefore, genetic recessives of both major and minor consequence are not expressed. Research indicates that heterosis is greatest for traits related to vitality, fertility, health and survival.

Heterosis is not everything – the additive breed effects are important in crossbreeding as well as in all breeding. The heterosis will be an extra benefit on top of the parent average. So one critical point is to always use the best bulls from breeds that suit your conditions. A crossbreeding program needs to be well planned and organized to produce benefits. The breeds you select must be unrelated, competitive and have an efficient breed improvement program – and remember to use the best bulls for the best results.



Why three breeds?

Capturing and sustaining heterosis is a key part to an efficient crossbreeding program. Once you are used to the extra bonus of heterosis you do not want it to drop below 75 %. A three-breed rotation is the optimum and results in an average heterosis of 86 %.





© Elly Geverink

Adding value every day

Viking Jersey Cows sired by VikingGenetics bulls prepare you for an ever more competitive future, combining longevity and production like no other cows. We were the first to focus on important traits like fertility and udder health – a dedication to the farmer's best interest that has resulted in superior long-term profitability.

VikingJerseys are on the leading edge among the world's Jersey population for fat and protein percentages and yields. An outcross to most other Jersey populations, Viking Jerseys are internationally famous for longevity and are respected worldwide to be an efficient, healthy and durable cow with high components. Give your herd the international edge by including VikingJersey sires. The high participation in milk recording and the unique registrations on health and fertility enables an effective selection for cows that are high yielding and at the same time go in calf and stay healthy. In short, our VikingJersey bulls give you more output, less trouble and more freedom.



Breed statistics

No. of cows	72,000
Milk, kg	6,871
Fat, kg	406
Fat, %	5.91
Protein, kg	283
Protein, %	4.12
Fat + Protein, kg	689

A2/A2

VJ Husky

RRP
\$28.00
+ GST

- Star pedigree
- Tall stylish cows
- Strong engine room (Production and health)

NTM +25
+\$383 more profit



69%

NRR after day 56, see page 3

NEW!

DJ Hulk / DJ May / Q Impuls

Herdbook
DENMARK
303402

Bull ID
VikJHusky

Nasis ID
89JJF08



Nordic Breeding values feb 2014
100 = Breed average

▶▶▶ For key explanations and the value of +10 units (110), see page 65

PRODUCTION TRAITS		REL 86%	DTRS/HERDS		89/62
		90	100	110	120
Prod. index	118				
Milk, kg	108				
Protein, kg	116				
Protein, %	107				
Fat, kg	114				
Fat, %	101				
Growth rate	108				

HEALTH TRAITS		REL 68%			
		90	100	110	120
Daughter fertility	106				
Calvings, Sire	105				
Calvings, maternal	111				
Udder health	104				
Other diseases	106				
Longevity	104				
Hoof health	99				

CONFORMATION/MANAGEMENT TRAITS		NO. OF DTRS		28				
		70	80	90	100	110	120	130
Milking speed	104							
Temperament	105							

Average zone

TOTAL Body 116 Feet&legs 99 Udder 115

Stature	120	tall	Fore udder	108	strong
Dairyness	115	angular	Rear udder height	94	low
Chest width	103	wide	Rear udder width	96	narrow
Body depth	101	deep	Suspensory ligam.	95	weak
Rump width	110	wide	Udder depth	114	shallow
Rump angle*	103	low pins	Udder balance	92	low rear
Top line	105	strong	Teat length	101	long
Legs side	94	sickled	Teat thickness	110	thick
Legs rear view	111	parallel	Teat placem. front	110	close
Foot angle	99	low	Teat placem. rear	95	wide

*90 = level. Bold numbers = more than 1 standard deviation from average.



*When money talks,
we choose*

VIKINGGENETICS[®]
adding value every day

A2/A2

VJ Link

RRP
\$26.00
+ GST

A2/A2

VJ Hilario

RRP
\$26.00
+ GST

- No 1 Danish Sire on NTM
- No 3 Sire in US on NM\$
- High protein production and dtr fertility

- High milk and protein production
- Daughter fertility and longevity
- Taller cows with nice topline and rumps

NEW!



Legacy / Q Hirse / Jas Hot

Herdbook
DENMARK
303227Bull ID
VikJLinkNasis ID
89JJF09

70%

NRR after
day 56,
see page 3Nordic Breeding values feb 2014
100 = Breed average

NEW!



Q Hirse / Q Impuls / Fyn Lemvig

Herdbook
DENMARK
303406Bull ID
VikJHilarioNasis ID
89JJF07

64%

NRR after
day 56,
see page 3Nordic Breeding values feb 2014
100 = Breed averageNTM **+30** +\$459 more profit

DAM PRODUCTION

Cow 742
7 lact
8,311 kg
5.57% F / 463 kg F
4.18% P / 348 kg P

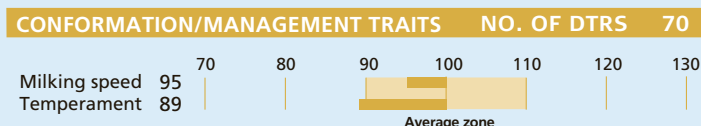
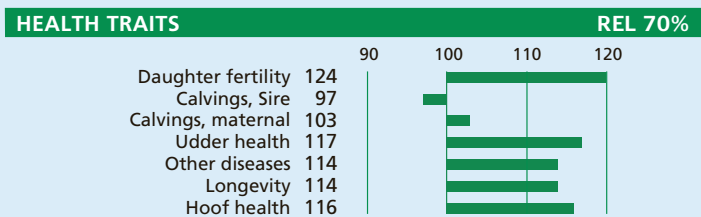
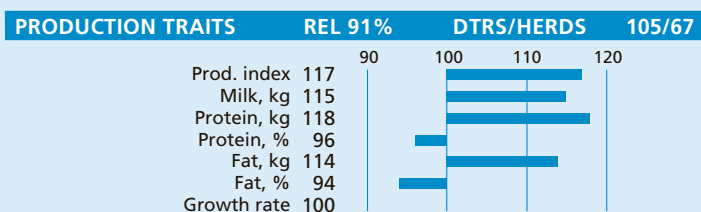
USDA PRODUCTION 04/2014

NM\$	594	PL	4.7
F %	0.20	F lbs	62
P %	0.07	P lbs	33
Milk lbs	564		
Rel %	83		

When money talks, we choose

VIKINGGENETICS[®]
adding value every day

▶▶▶ For key explanations and the value of +10 units (110), see page 65



TOTAL Body 91 Feet&legs 118 Udder 101

Stature	99 short	Fore udder	92 weak
Dairyness	102 angular	Rear udder height	103 high
Chest width	86 narrow	Rear udder width	99 narrow
Body depth	82 shallow	Suspensory ligam.	104 strong
Rump width	100 wide	Udder depth	107 shallow
Rump angle*	98 low pins	Udder balance	101 high rear
Top line	93 weak	Teat length	96 short
Legs side	87 posty	Teat thickness	101 thick
Legs rear view	100 parallel	Teat placem. front	99 wide
Foot angle	111 steep	Teat placem. rear	108 close

*90 = level. Bold numbers = more than 1 standard deviation from average.

NTM **+24** +\$367 more profit

DAM PRODUCTION

Cow 3295
5 lact
9,274 kg
5.24% F / 486 kg F
4.10% P / 380 kg P

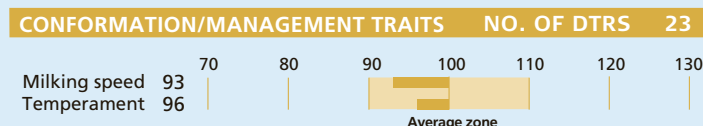
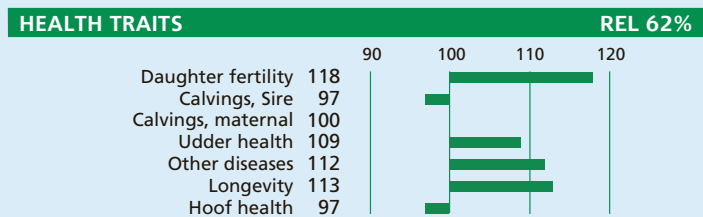
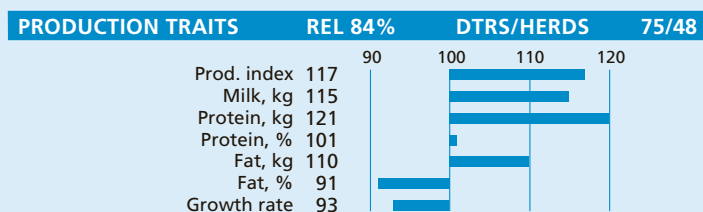
USDA PRODUCTION 04/2014

NM\$	513	PL	3.8
F %	0.16	F lbs	63
P %	0.10	P lbs	46
Milk lbs	731		
Rel %	76		

When money talks, we choose

VIKINGGENETICS[®]
adding value every day

▶▶▶ For key explanations and the value of +10 units (110), see page 65

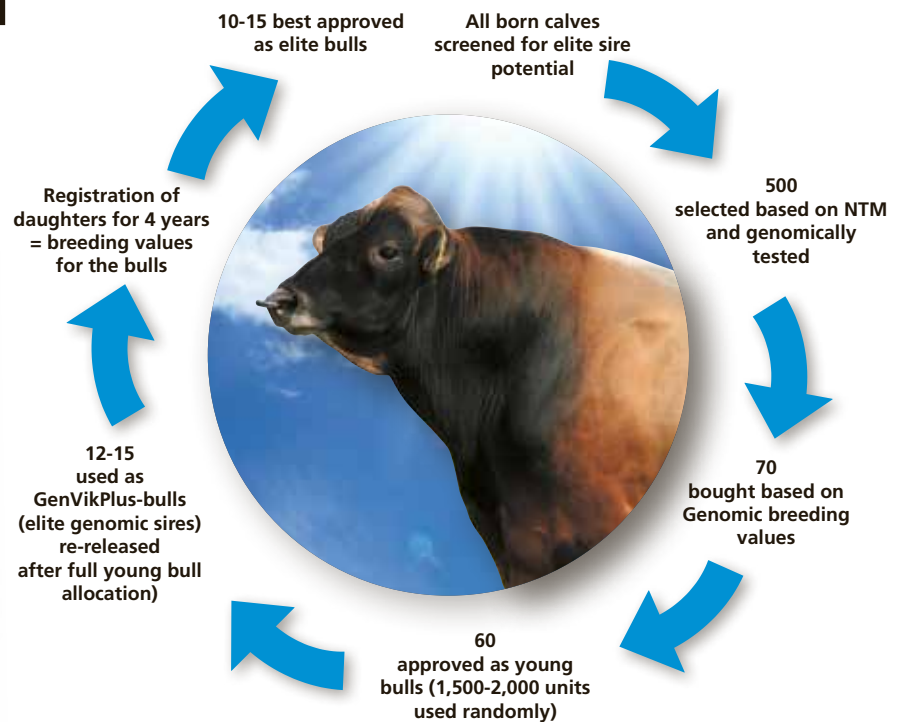


TOTAL Body 117 Feet&legs 103 Udder 103

Stature	116 tall	Fore udder	103 strong
Dairyness	110 angular	Rear udder height	108 high
Chest width	98 narrow	Rear udder width	105 wide
Body depth	99 shallow	Suspensory ligam.	97 weak
Rump width	109 wide	Udder depth	106 shallow
Rump angle*	98 low pins	Udder balance	91 low rear
Top line	111 strong	Teat length	96 short
Legs side	90 sickled	Teat thickness	104 thick
Legs rear view	97 hock in	Teat placem. front	89 wide
Foot angle	106 steep	Teat placem. rear	94 wide

*90 = level. Bold numbers = more than 1 standard deviation from average.

From calf to elite NTM sire – many steps of selection



Fast track your herd with Genomic Bulls!

VikingGenetics **Jersey Genomic Programme** is the original first hand choice when it comes to profitable herd improvement.

The Genomic Sires from Viking are the next generation, and offers you top quality genetics. All bulls entering the program are pre-selected on their genomic values, to ensure that only the best of the best go through progeny testing. Unique registrations and cattle data base give us a tremendous tool for accurate genomic

selection. Young bulls with the very best genomic values are used beyond the inseminations for progeny testing, and are marketed as GenVikPlus. Here we can offer you the very best bulls, with the most interesting pedigrees.

**PURCHASE GENOMIC SIRES INDIVIDUALLY
OR SAVE \$ WITH OUR GREAT**

PACK DEAL!

Purchase at least 15 straws each of the two genomic sires on page 58 to receive the Pack Price of \$18 per dose.



VJ Holdo

- Nice outcross bloodlines for Australia
- All positives for production and health traits
- Taller cows with shallow udders



VJ Herodot / DJ Hulk / DJ Beo

Herdbook
DENMARK
303664

Bull ID
VikJHoldo
Nasis ID
89JJH08



71%

NRR after
day 56,
see page 3



NTM +18 +\$275 more profit

DAM PRODUCTION

Cow 2514
3 lact
5,776 kg
5.9% F / 341 kg F
4.25% P / 245 kg P



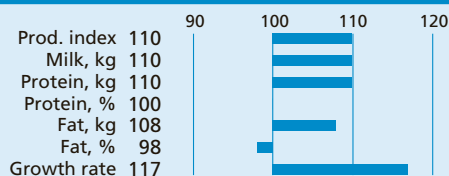
Nordic Breeding values feb 2014
100 = Breed average

When money talks, we choose

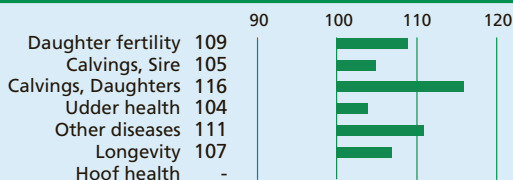


▶▶▶ For key explanations and the value of +10 units (110), see page 65

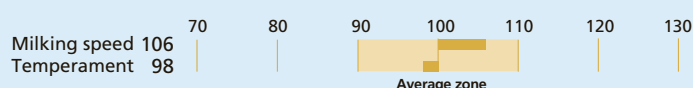
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION/MANAGEMENT TRAITS



TOTAL Body 105 Feet&legs 107 Udder 108

Stature	109 tall	Fore udder	107 strong
Dairyness	102 angular	Rear udder height	100 high
Chest width	111 wide	Rear udder width	96 narrow
Body depth	107 deep	Suspensory ligam.	105 strong
Rump width	99 narrow	Udder depth	109 shallow
Rump angle*	97 low pins	Udder balance	103 high rear
Top line	104 strong	Teat length	98 short
Legs side	89 posty	Teat thickness	99 thin
Legs rear view	103 parallel	Teat placem. front	107 close
Foot angle	98 low	Teat placem. rear	100 close

*90 = level. **Bold numbers** = more than 1 standard deviation from average.

VJ Ramirez

- Dam's best lactation 7,424 kg, 6.63% F, 4.29%P, now that's profit!
- Tall cows with nice udders
- Great daughter fertility and longevity



VJ Ramses / DJ Hulk / DJ May

Herdbook
DENMARK
303657

Bull ID
VikJRamirez
Nasis ID
89JJH07



71%

NRR after
day 56,
see page 3



NTM +17 +\$260 more profit

DAM PRODUCTION

3247 Trine
2 lact
6,623 kg
6.68% F / 443 kg F
4.29% P / 284 kg P



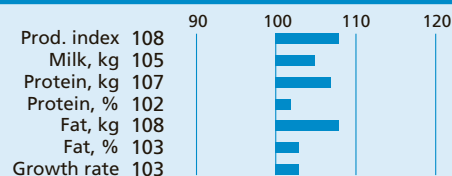
Nordic Breeding values feb 2014
100 = Breed average

When money talks, we choose

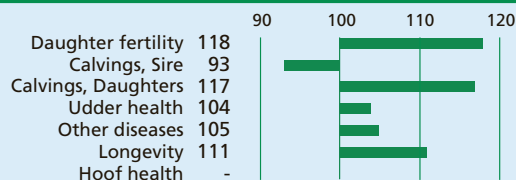


▶▶▶ For key explanations and the value of +10 units (110), see page 65

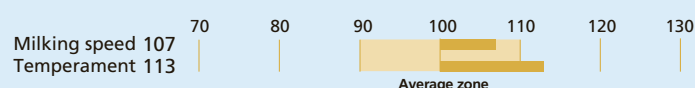
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION/MANAGEMENT TRAITS



TOTAL Body 106 Feet&legs 98 Udder 106

Stature	116 tall	Fore udder	106 strong
Dairyness	100 angular	Rear udder height	95 low
Chest width	102 wide	Rear udder width	104 wide
Body depth	94 shallow	Suspensory ligam.	98 weak
Rump width	110 wide	Udder depth	106 shallow
Rump angle*	110 low pins	Udder balance	96 low rear
Top line	96 weak	Teat length	101 long
Legs side	90 posty	Teat thickness	103 thick
Legs rear view	104 parallel	Teat placem. front	99 wide
Foot angle	90 low	Teat placem. rear	95 wide

*90 = level. **Bold numbers** = more than 1 standard deviation from average.



A2/A2

DJ Hulk

RRP
\$24.00
+ GST

- High milk and components
- Very profitable cows, 4,000 dtrs in Denmark
- Outcross bloodlines for Australia

NTM +23
+\$383 more profit



64%

NRR after day 56, see page 3



Q Handix / FYN Lemvig / JAS Byg

Herdbook
DENMARK
302595

Bull ID
VikHulk

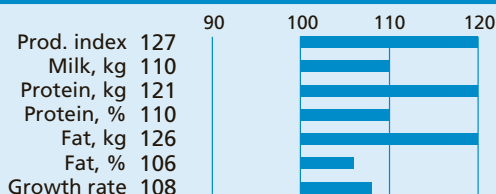
Nasis ID
89JJZ05



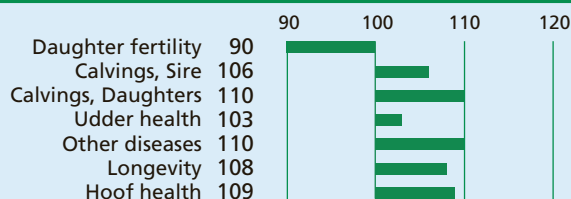
Nordic Breeding values feb 2014
100 = Breed average

▶▶▶ For key explanations and the value of +10 units (110), see page65

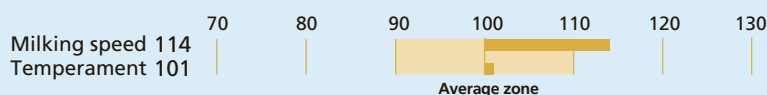
PRODUCTION TRAITS REL 94% DTRS/HERDS 3979/485



HEALTH TRAITS REL 99%



CONFORMATION/MANAGEMENT TRAITS NO. OF DTRS 2214



TOTAL Body 101 Feet&legs 95 Udder 93

Stature	102	tall	Fore udder	89	loose
Dairyness	112	angular	Rear udder height	89	low
Chest width	88	narrow	Rear udder width	98	narrow
Body depth	86	shallow	Suspensory ligam.	98	weak
Rump width	90	narrow	Udder depth	102	shallow
Rump angle*	95	low pins	Udder balance	79	low rear
Top line	112	strong	Teat length	94	short
Legs side	114	sickled	Teat thickness	101	thick
Legs rear view	101	parallel	Teat placem. front	88	wide
Foot angle	85	low	Teat placem. rear	92	wide

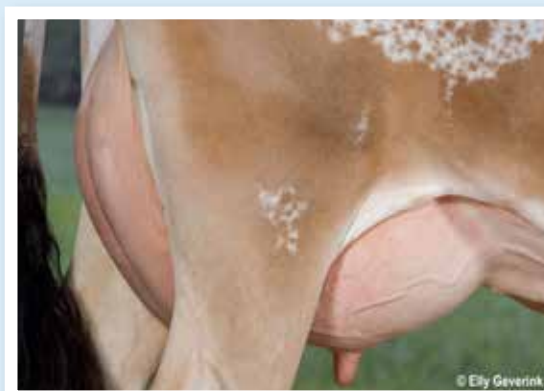
*90 = level. Bold numbers = more than 1 standard deviation from average.

DAM PRODUCTION

Cow 1236
VG85
7 lact
7,394 kg
5.97% F / 442 kg F
4.00% P / 296 kg P

USDA PRODUCTION 04/2014

NM\$	477	PL	2.2
F %	0.43	F lbs	94
P %	0.16	P lbs	40
Milk lbs	316		
Rel %	93		



*When money talks,
we choose*

VIKINGGENETICS^R
adding value every day



A2/A2

VJ Lure

RRP
\$25.00
+ GST

- Highly ranked sire with 151 dtrs in his proof
 - Lovely bodied cows with great health
- Very positive milking speed and temperament

NTM +24
+\$367 more profit



66%

NRR after day 56, see page 3



DJ Lirsk / Q Impuls / DJ Trick

Herdbook
DENMARK
303259

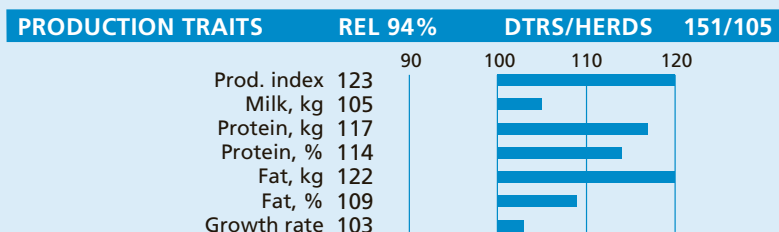
Bull ID
VikLure

Nasis ID
89JJD02



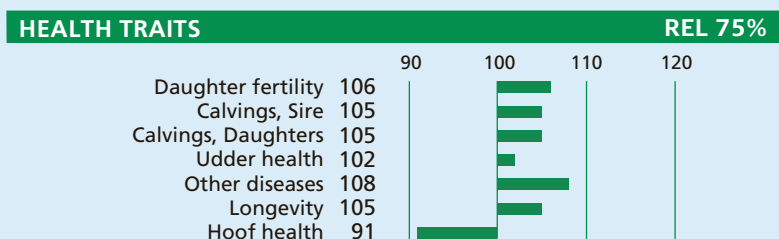
Nordic Breeding values feb 2014
100 = Breed average

►►► For key explanations and the value of +10 units (110), see page 65



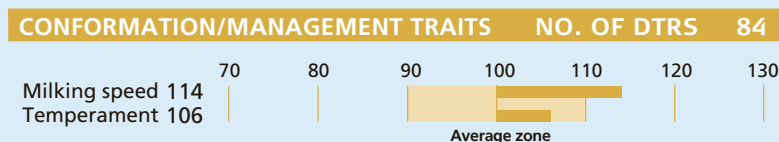
DAM PRODUCTION

Cow 1319
4 lact
7,719 kg
6.42% F / 495 kg F
4.40% P / 339 kg P



USDA PRODUCTION 04/2014

NM\$	629	PL	5.7
F %	0.48	F lbs	83
P %	0.21	P lbs	34
Milk lbs	-110		
Rel %	83		



TOTAL Body 99 Feet&legs 109 Udder 98

Stature	104 tall	Fore udder	88 loose
Dairyness	108 angular	Rear udder height	105 high
Chest width	90 narrow	Rear udder width	90 narrow
Body depth	101 deep	Suspensory ligam.	113 strong
Rump width	88 narrow	Udder depth	97 deep
Rump angle*	121 low pins	Udder balance	109 high rear
Top line	115 strong	Teat length	99 short
Legs side	97 posty	Teat thickness	104 thick
Legs rear view	103 parallel	Teat placem. front	108 close
Foot angle	112 steep	Teat placem. rear	118 close

*90 = level. Bold numbers = more than 1 standard deviation from average.



*When money talks,
we choose*

VIKINGGENETICS^R
adding value every day



DJ Izzy

SEXED
SEMEN
\$60.00
+ GST

RRP
\$18.00
+ GST

- Maintains a solid proof with 3,773 daughters
- Very good "engine room" (production and health traits)
- Will improve fore udders and depth on the Australian Jerseys

NTM +15
+\$230 more profit



67%

NRR after day 56, see page 3



Q Impuls / Q Zik / Hibiscus

Herdbook
DENMARK
302708

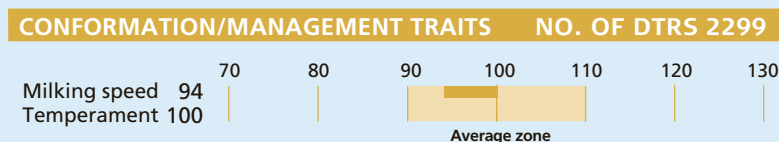
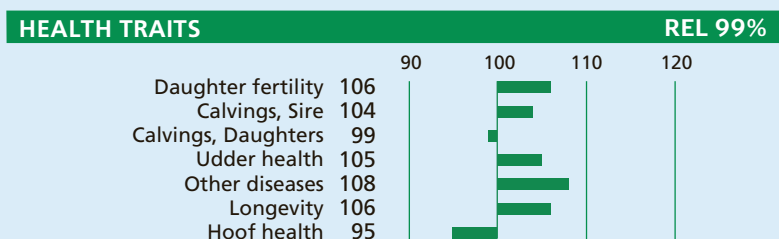
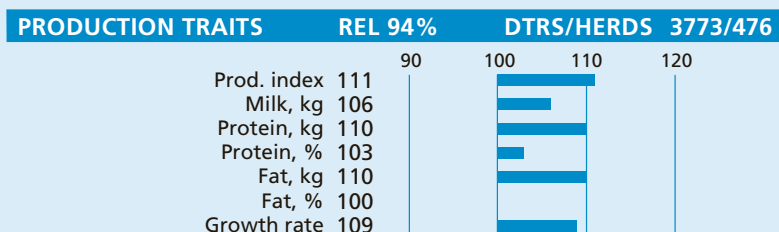
Bull ID
VikIzzy

Nasis ID
89JJA04



Nordic Breeding values feb 2014
100 = Breed average

►►► For key explanations and the value of +10 units (110), see page 65



TOTAL Body 103 Feet&legs 97 Udder 109

Stature	102 tall	Fore udder	117 strong
Dairyness	97 strong	Rear udder height	103 high
Chest width	99 narrow	Rear udder width	96 narrow
Body depth	94 shallow	Suspensory ligam.	89 weak
Rump width	100 wide	Udder depth	108 shallow
Rump angle*	97 low pins	Udder balance	104 high rear
Top line	106 strong	Teat length	109 long
Legs side	101 sickled	Teat thickness	107 thick
Legs rear view	101 parallel	Teat placem. front	88 wide
Foot angle	92 low	Teat placem. rear	90 wide

*90 = level. Bold numbers = more than 1 standard deviation from average.



DAM PRODUCTION

Cow 1197
VG85
4 lact
6,466 kg
6.77% F / 438 kg F
4.2% P / 271 kg P

USDA PRODUCTION 04/2014

NM\$	501	PL	4.3
F %	0.29	F lbs	61
P %	0.11	P lbs	27
Milk lbs	180		
Rel %	88		



*When money talks,
we choose*

VIKINGGENETICS^R
adding value every day

DJ Holmer

RRP
\$16.00
+ GST

- Improves your bottom line through health traits
 - Fertile, long lasting cows
- Vastly improves fore udders and udder depth

NTM +15
+\$230 more profit



69%

NRR after day 56, see page 3



Q Hirse / FYN Lemvig / JAS Bregne

Herdbook
DENMARK
303057

Bull ID
VikHolmer

Nasis ID
89JJC05



Nordic Breeding values feb 2014
100 = Breed average

▶▶▶ For key explanations and the value of +10 units (110), see page 65

PRODUCTION TRAITS		REL 94%	DTRS/HERDS		147/97
		90	100	110	120
Prod. index	99				
Milk, kg	98				
Protein, kg	97				
Protein, %	99				
Fat, kg	101				
Fat, %	102				
Growth rate	105				

DAM PRODUCTION

2522 Julie
4 lact
9,310 kg
5.29% F / 493 kg F
4.32% P / 402 kg P

HEALTH TRAITS		REL 75%			
		90	100	110	120
Daughter fertility	111				
Calvings, Sire	110				
Calvings, Daughters	97				
Udder health	118				
Other diseases	114				
Longevity	114				
Hoof health	98				

USDA PRODUCTION 04/2014

NM\$	440	PL	4.2
F %	0.34	F lbs	42
P %	0.11	P lbs	5
Milk lbs	-446		
Rel %	86		

CONFORMATION/MANAGEMENT TRAITS		NO. OF DTRS		90				
		70	80	90	100	110	120	130
Milking speed	104							
Temperament	98							

Average zone

TOTAL Body 101 Feet&legs 93 Udder 114

Stature	89 short	Fore udder	119 strong
Dairyness	100 angular	Rear udder height	113 high
Chest width	114 wide	Rear udder width	106 wide
Body depth	113 deep	Suspensory ligam.	108 strong
Rump width	108 wide	Udder depth	112 shallow
Rump angle*	90 low pins	Udder balance	112 high rear
Top line	98 weak	Teat length	97 short
Legs side	104 sickled	Teat thickness	99 thin
Legs rear view	93 hock in	Teat placem. front	101 close
Foot angle	108 steep	Teat placem. rear	105 close

*90 = level. Bold numbers = more than 1 standard deviation from average.



*When money talks,
we choose*

VIKINGGENETICS^R
adding value every day



A2/A2

DJ Lix

SEXED
SEMEN
\$60.00
+ GST

RRP
\$20.00
+ GST

- Will vastly improve fore udders and udder depth in Australia!
- Very high components
- Lovely temperament and milking speed

NTM +15
+\$230 more profit



68%

NRR after day 56, see page 3



Q Lor / Q Zik / ODA Rix

Herdbook
DENMARK
302997

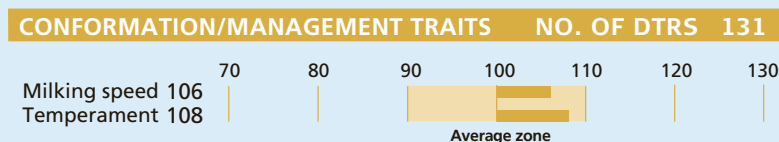
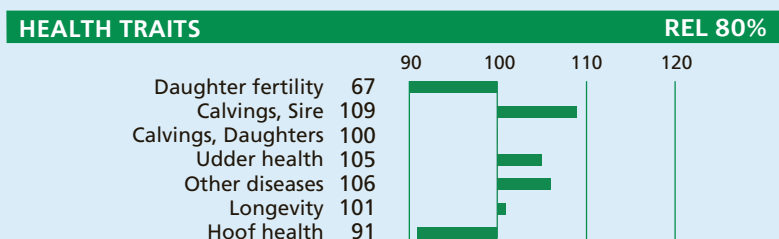
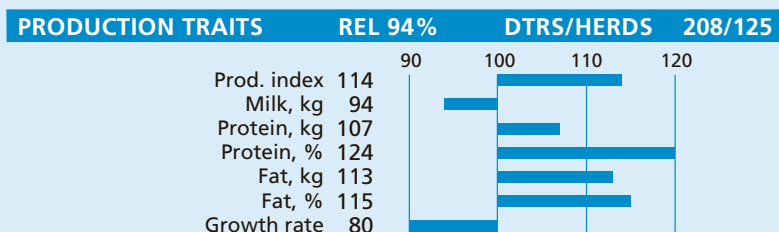
Bull ID
VikLix

Nasis ID
89JJC06



Nordic Breeding values feb 2014
100 = Breed average

▶▶▶ For key explanations and the value of +10 units (110), see page 65



TOTAL Body 95 Feet&legs 103 Udder 121

Stature	91 short	Fore udder	117 strong
Dairyness	102 angular	Rear udder height	116 high
Chest width	106 wide	Rear udder width	106 wide
Body depth	106 deep	Suspensory ligam.	109 strong
Rump width	91 narrow	Udder depth	116 shallow
Rump angle*	90 low pins	Udder balance	114 high rear
Top line	91 weak	Teat length	107 long
Legs side	98 posty	Teat thickness	101 thick
Legs rear view	113 parallel	Teat placem. front	115 close
Foot angle	92 low	Teat placem. rear	113 close

*90 = level. Bold numbers = more than 1 standard deviation from average.



DAM PRODUCTION

Cow 1531
VG86
6 lact
7,368 kg
6.25% F / 461 kg F
4.31% P / 317 kg P

USDA PRODUCTION 04/2014

NM\$	391	PL	3.2
F %	0.57	F lbs	58
P %	0.26	P lbs	13
Milk lbs	-944		
Rel %	87		



*When money talks,
we choose*

VIKINGGENETICS^R
adding value every day



A2/A2

RRP
\$16.00
+ GSTSEXED
SEMEN
\$60.00
+ GSTRRP
\$20.00
+ GST

VJ Maestro

- Lovely milking speed and temperament
- Strong fore udder with excellent teat placement
- Strong top line

Herdbook
DENMARK
303326Bull ID
VikMaestro
Nasis ID
89JJF06

65%

NRR after
day 56,
see page 3

DJ May / Q Impuls / FYN Lemvig

Nordic Breeding values feb 2014
100 = Breed average**NTM +11** +\$168 more profit**DAM PRODUCTION**

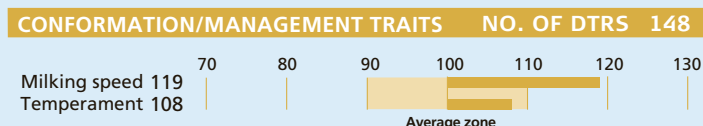
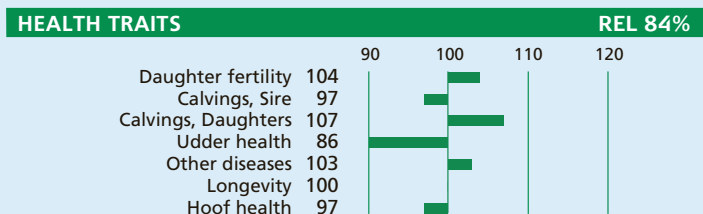
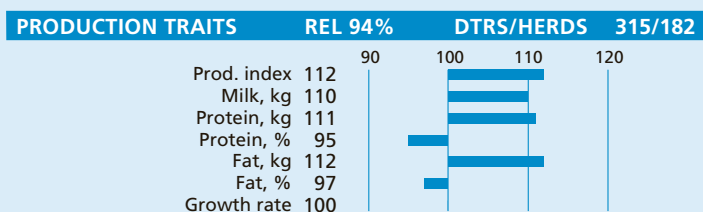
2462 Bibi
2 lact
7,961 kg
6.03% F / 480 kg F
4.14% P / 330 kg P

USDA PRODUCTION 04/2014

NM\$	391	PL	3.0
F %	0.28	F lbs	61
P %	0.09	P lbs	23
Milk lbs	204		
Rel %	87		

When money talks, we choose

▶▶▶ For key explanations and the value of +10 units (110), see page 65

**TOTAL** Body 109 Feet&legs 86 Udder 114

Stature	98 short	Fore udder	119 strong
Dairyness	105 angular	Rear udder height	104 high
Chest width	96 narrow	Rear udder width	101 wide
Body depth	97 shallow	Suspensory ligam.	95 weak
Rump width	108 wide	Udder depth	107 shallow
Rump angle*	98 low pins	Udder balance	84 low rear
Top line	117 strong	Teat length	94 short
Legs side	119 sickled	Teat thickness	96 thick
Legs rear view	89 hock in	Teat placem. front	114 close
Foot angle	98 low	Teat placem. rear	102 close

*90 = level. Bold numbers = more than 1 standard deviation from average.

DJ Jante

- High reliability with 3,626 dtrs in his proof
- Improves daughter fertility
- Tall cows with great chest and body

Herdbook
DENMARK
302761Bull ID
VikJante
Nasis ID
89JJB03

68%

NRR after
day 56,
see page 3

M Jace / ODA Rix / FYN Lemvig

Nordic Breeding values feb 2014
100 = Breed average**NTM +10** +\$153 more profit**DAM PRODUCTION**

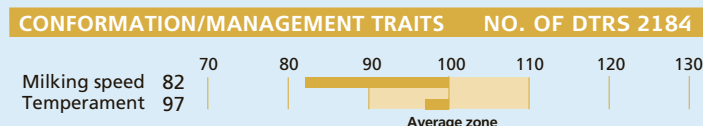
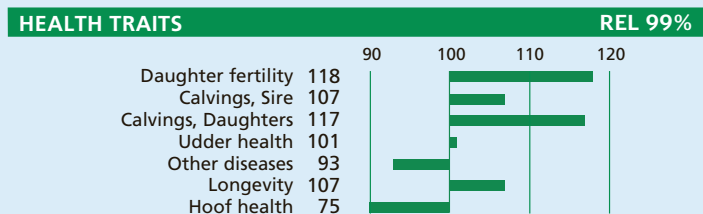
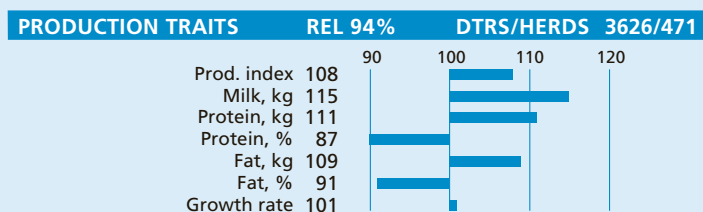
Cow 1226
VG85
4 lact
7,509 kg
5.93% F / 445 kg F
4.15% P / 312 kg P

USDA PRODUCTION 04/2014

NM\$	383	PL	2.9
F %	0.15	F lbs	53
P %	0.03	P lbs	24
Milk lbs	512		
Rel %	94		

When money talks, we choose

▶▶▶ For key explanations and the value of +10 units (110), see page 65

**TOTAL** Body 121 Feet&legs 97 Udder 101

Stature	116 tall	Fore udder	94 loose
Dairyness	112 angular	Rear udder height	97 low
Chest width	112 wide	Rear udder width	110 wide
Body depth	115 deep	Suspensory ligam.	121 strong
Rump width	124 wide	Udder depth	88 deep
Rump angle*	92 low pins	Udder balance	97 low rear
Top line	95 weak	Teat length	123 long
Legs side	101 sickled	Teat thickness	117 thick
Legs rear view	102 parallel	Teat placem. front	117 close
Foot angle	110 steep	Teat placem. rear	117 close

*90 = level. Bold numbers = more than 1 standard deviation from average.



What does the breeding values mean?

The value of +10 units for NTM for the sire is the same as \$153* added value for the heifer under Scandinavian conditions.

*Source NAV. Euro converted to AUD 1/3/2014.

Production traits	Breed Average	Meaning of +10 units
NTM	0	+\$153
Milk Index, kg	6,599	+164 kg
Fat Index, kg	391	+8.0 kg
Fat, %	5.93	+0.13 %
Protein, kg	272	+6.0 kg
Protein, %	4.12	+0.08 %
Growth Rate, weight gain/day		+1g/day higher weight gain of bull calves
Calculation of Production Index	-0.25 x Milk + 0.25 x Fat + 1 x Protein	

Health traits	Meaning of +10 units
Daughter fertility. Fertility data from heifers, first, second and third calvers. Includes number of inseminations, interval from calving to 1st insemination, interval between first and last insemination, Non Return Rate.	Days open reduced by 5.6 days and 0.06 less services per pregnancy
Udder Health. Based on mastitis diagnosis, compulsory reported by vets and from the milk recording scheme, cell-count data and reported cullings due to mastitis. In addition conformation traits like udder depth is used to further increase the accuracy of the index.	3% units less mastitis treatments in first lactation, 2.5% less mastitis treatments in second and third lactation
Other diseases. Based on diseases other than mastitis, compulsory reported by vets and culling reports from the milk recording scheme. The diseases are divided in to four different subindexes – early and late fertility disorder, feet and leg problems and metabolic diseases – these four sub-indexes are then weight together to the complete index for Other diseases.	0.5% less treatments for reproduction diseases, metabolic disorders and diseases in hooves, feet and legs in first and second lactation. 2.2% less treatments for the same diseases in third lactation
Hoof Health. Based on lesion scoring reported by hoof trimmers. Includes both infectious and laminitis related lesions with highest weight put on sole ulcer.	Significant decrease in Dermatitis, Heel horn erosion, Sole haemorrhages, Sole ulcer, Corkscrew claw, Limax, White line disease and double sole.
Longevity. The index for longevity describes the genetic ability of the bull's daughters to survive. Bulls with high indexes for longevity breed daughters with a longer productive life. The breeding value for longevity is heavily influenced by fertility, udder health and other diseases, also udder conformation and feet & legs. The value of longevity is a combination of % culled in 1st, 2nd and 3rd and later lactations.	35 days longer productive life

Management traits	Meaning of +10 units
Milking speed. Based on farmers observations and robotic data.	9.5 g Fat + Protein more per minute
Temperament. Based on farmers observations and robotic data.	

Sire comments Jersey



VJ Link
(Legacy / Q Hirse / Jas Hot)

The outstanding VikingGenetic link to Net merit and Profit! VJ Link is probably the best daughter proven legacy son world wide. VJ Link is out of "Lango Hirse Donna II", from the same herd and family as VJ Miro-P and same herd as legendary Q Hirse. VJ Link is a breed leader for Net merit, female fertility, udder and hoof health as well as for longevity and Feet and Legs. Exceptional out cross breeding shallow udders and ideal teats.



VJ Ramirez
(VJ Ramses / DJ Hulk / DJ May)

VJ Ramirez is bred from a herd where seasonal calving and grazing is the management system, his dam has a three lactation average of 7,424 ltr 6.63% F and 4.29% P 810 kg's of solids! Ramirez breeds milk and components, tall cows with nice body and rump structure. Also good udders and udder health coupled with an excellent health profile, especially daughter fertility. Ramirez is suitable for most matings in the Australian Jersey population.



DJ Holmer
(Q Hirse / Fyn Lemvig / JAS Bregne)

DJ Holmer should be fully utilized to build health traits. He has a very impressive health profile which comes by no accident as his sire, Q Hirse, was a similar sire as was his grand sire, Hibiscus. His dam was by the great sire, Fyn Lemvig and the grand dam was by another great health bull, Jas Bregne. It is little wonder he has a high score for daughter longevity, mastitis resistance and high daughter fertility. Holmer also transmits width and depth and very nice udders. His production index is just above average, which is still impressive with the Danish Jersey having a breed average of over 6,500kg milk with 6% fat and 4.2% protein.



DJ Izzy
(Q Impuls / Q Zik / Hibiscus)

DJ Izzy now has 3,773 daughters in his proof and breeds cows of average stature and body and has shallow, well attached udders with very good production and health. DJ Izzy, Danish top bull combines the best of the 4 leading Jersey populations worldwide. His sire line up is made up of gene contribution of 69% Danish, 16% American, 10% Canadian and 5% New Zealand. The American genes come from Highland Duncan Lester and A-Nine Top Brass, the Canadian genes come from Meadow Lawn J Imperial and the New Zealand genes come from Ruscot Star Career and Glenmore Royal Guide, Extremely influential sires from and in all populations.



VJ Husky
(DJ Hulk / DJ May / Q Impuls)

VJ Husky is out of "Ronholm May Dodo" and the first daughter proven DJ Hulk son, world wide. VJ Husky is an extremely good overall sire. Notice the high production and high protein percentage. Tall daughters of excellent type with strong fore udders, shallow udders and thick teats. Then add good fertility, health and longevity. VJ Husky is sire of one of our best Genomic bulls.



DJ Lix
(Q Lor / Q Zik / Oda Rix)

DJ Lix breeds production and very high percentages. He is one of the best bulls within the breed for mammary. A little smaller in stature but with good capacity. Use DJ Lix on daughters of DJ Lirsk, DJ Zuma, DJ May and pedigrees with good fertility and where you want high percentages and perfect udders.



DJ Hulk
(Q Handix / Fyn Lemvig / Jas Byg)

Hulk now has 3,979 daughters in his proof and many more to come as his daughters are very profitable. DJ Hulk is the first active proven son of Q Handix, used in Denmark. The pedigree has 78% Danish genes, 14% American and 8% New Zealand. DJ Hulk daughters are of average stature, type, feet and legs and mammary. Udders are shallow. This bull is a production bull. He breeds high fat and protein percentages and many kilos as well. DJ Hulk will be a good choice for daughters of Jas Bungy, DJ Lirsk, DJ May, DJ Beo, Q Zik and daughters of Canadian or American bulls where percentages need a lift.



VJ Lure
(DJ Lirsk / Q Impuls / DJ Trick)

VJ Lure is out of the famous "Stjerne" (star) family bred by Henning Poulsen, Rynkeby. Dam is "Rynkeby Impuls Stjerne2". The cow ended 4 lactations with 7,719kg milk, 6.74% fat 4.59% prt, average 305 days. Both MGD and MGGD milked more than 7,000kg with more than 6.7 and 4.5% average. All female offspring from "Rynkeby Impuls Stjerne 2" have become bull mothers. VJ Ramses (DJ Rig / Q Hirse) is out of a sister to Lure, "Rynkeby Hirse Stjerne3". Lots of sires will come from the family over the next couple of years. Some of our best genomic sires are out of the "Stjerne family" - VJ Ziegler (DJ Zuma), VJ Gulf (DJ Give) and more. Embryos from the "Stjerne" family have been exported to Finland, and others are marketed in late 2013.

VJ Lure is a breed leader for high production and high percentages. Exceptional fertility and good udder health and longevity are not what you normally expect from a production sire, but here you have it all. Daughters are a little taller than average, clean and dairy with a straight top line. Feet and legs are very strong and the steep foot angle needs to be mentioned. Rear udders are high and wide, teats are an ideal size and placement is good as well.



VJ Hilario
(Q Hirse / Q Impuls / Fyn Lemvig)

VJHilario is the latest of 4 daughter proven top sires from the "J" family from the Espe-Holm herd. VJ Hilario is out of "Espe-Holm Impuls Joan" and a brother to VJ Tulsa. Their sister is the dam of VJ Pick and their mother is a sister to DJ Holmer. 73% of the genes in Hilario are Danish, 12% are New Zealand and only 15% are North American. VJ Hilario breeds high protein production, excellent type and extremely good shallow fore and rear udders. Fertility, udder health and longevity are other of VJ Hilario's trademarks. VJ Hilario is the sire of one of our best Genomic bulls.



DJ Jante
(M Jace / Oda Rix / Fyn Lemvig)

Jante now has 3626 daughters in his proof giving high reliability. He has mostly American genes in his pedigree (72% US and 28% Danish), he transmits high producing, tall daughters with well-developed body, Feet and legs are average. DJ Jante breeds good udders and is especially good for the teat traits. The daughter fertility is excellent as well as udder health. DJ Jante will be a good choice for daughters of Q Zik, Q Hirse, DJ Topholm, DJ Hovborg or when fertility, body or teat traits need to be improved. Daughters of American bulls, without M Jace in the pedigree, are a very good choice to be inseminated to DJ Jante.



VJ Maestro
(DJ May / Q Impuls / Lemvig)

Maestro was a genomic sire that now has a good proof of NTM +11. He has a star line up in his pedigree. Maestro has over 300 daughters in his proof and they are nice production cows with moderate size, nice udders and excellent milking speed. Breeders here who have had success with the sires in Maestro's pedigree should make full use of this bull.

VJ Holdo
(VJ Heredot / DJ Hulk / DJ Beo)

Heredot is the sire of Holdo and he is a heavily used sire of sons. Heredot has fantastic health traits with exceptional daughter fertility. VJ Holdo is positive for all major traits giving more stature and shallow udders. VJ Holdo will suit all bloodlines here in Australia.

Look beyond the horizon

**VikingGenetics is in the frontline
breeding healthy cows**

Different sire
lines with a unique
combination of
good health and high
production giving
you a more
profitable cow



Photo: Ely Geverink