

Sire Directory 2014

Online edition – September



VIKINGHOLSTEIN[®]

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Adding value every day

VikingHolstein 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 farmers’ best interest that has resulted in superior long-term profitability.

VikingGenetics is one of the leading AI companies in the world, covering three countries and export to well above 40 markets annually. VikingGenetics uses genomic selection to select the very highest bull calves and puts 175 Holstein bulls through progeny testing every year. The high participation in milk recording and the unique registration on health and fertility enable an effective selection for cows that are high-yielding and in the same time breed back and stay healthy. In short, our Viking cows give you more output, less trouble and more freedom.



Breed statistics

No. of cows	603,731
Milk, kg	9,477
Fat, kg	387
Fat, %	4.09
Protein, kg	319
Protein, %	3.37
Fat + Protein, kg	706

NTM +33

EBV 2005 +1530 kg Milk +84 kg Fat +67 kg Prot.



Longevity



Easy Calvings



Conformation

VH Grafit



© Elly Geverink

VH Grafit is our number one proven bull with NTM +35. The daughters are very productive with lot of milk and excellent components. Already now there are more than 800 daughters in his production because the bull was heavily used as a genomic sire. This makes the bull very reliable!



HOL 253217

S B Goldwyn

MGS Oman Justi

MGGs BW Marshal

KappaCasein AB



© Elly Geverink

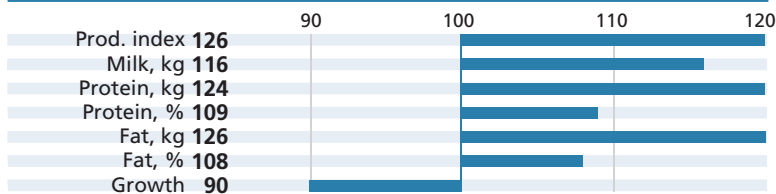


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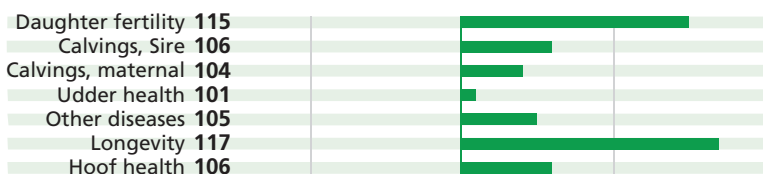


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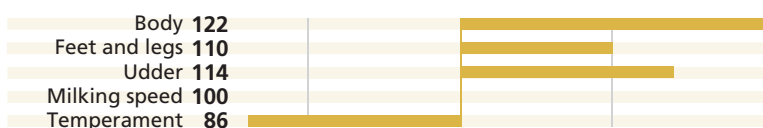
PRODUCTION TRAITS NO. OF DTRS 2483



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 1052



NTM +31

EBV 2005 +2480 kg Milk +59 kg Fat +79 kg Prot.



Longevity



Easy Calvings



Milk Production

VH OP



Alex Arkink



HOL 253721

S D Onside

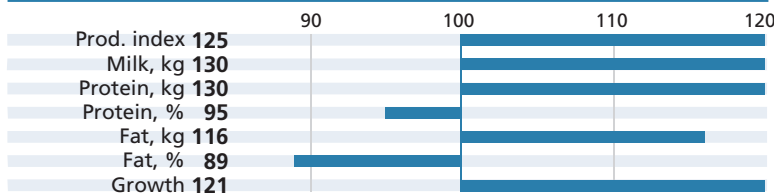
MGS S Jordan 3

MGGS VAR Calano

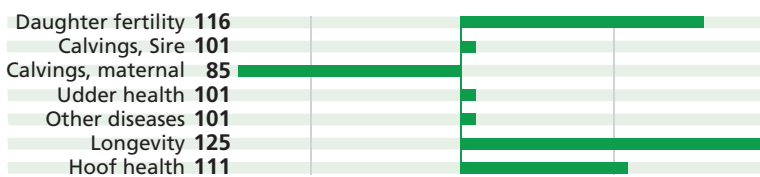
KappaCasein



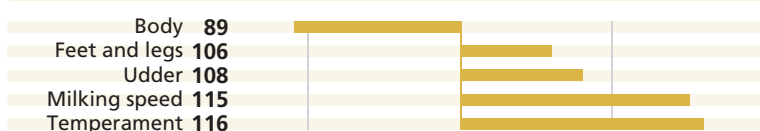
PRODUCTION TRAITS NO. OF DTRS 170



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 88



VH Op is sired by D Onside. His daughters are smaller than average but they have very good milk production, nice udders and good feet and legs. Good fertility, milking speed and temperament makes very functional cows with good longevity.

NTM +27

EBV 2005 +1195 kg Milk +30 kg Fat +39 kg Prot.



Longevity



Daughter Fertility



Udder Health

VH Black



© Elly Geverink



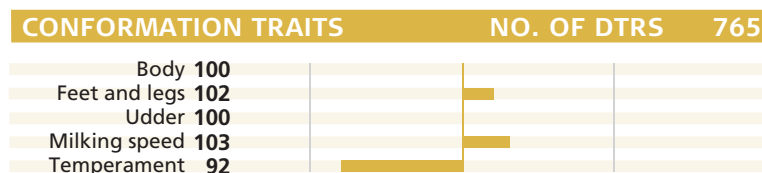
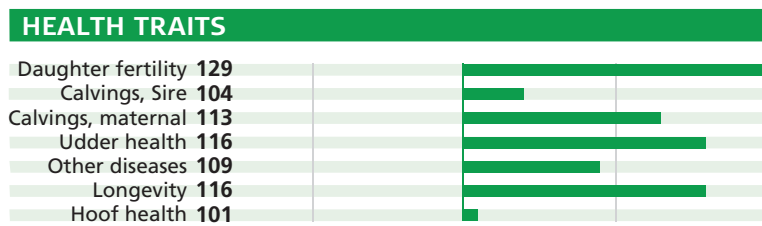
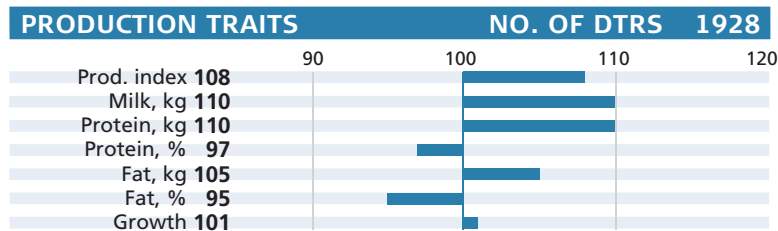
HOL 253186

S Bobas

MGS Oman Justi

MGGS RGK Bob CV

KappaCasein



VH Black is an excellent example of health and fertility: the fertility index is 125 and all the calving traits are positive. Udder health index 114 shows that the daughters have low somatic cell count and much less mastitis than average.

NTM +26

EBV 2005 +446 kg Milk +65 kg Fat +44 kg Prot.



Longevity



Hoof Health



Components

VH Oyvind



© Elly Geverink

VH Oyvind is an O-Man son with good production. His daughters have high components with good amount of milk. Oyvind is known as a health bull, all his indices for health traits are positive: udder health 106, other diseases 124, hoof health 127 and longevity 112.



HOL 252791

S Oman Justi

MGS V Exces

MGGs RGK Bob CV

KappaCasein BB



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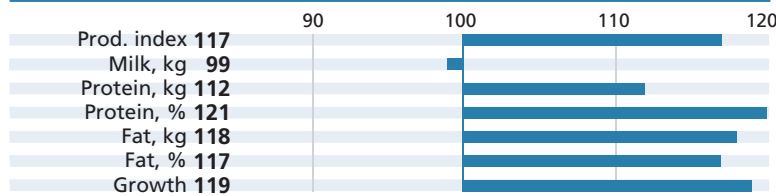


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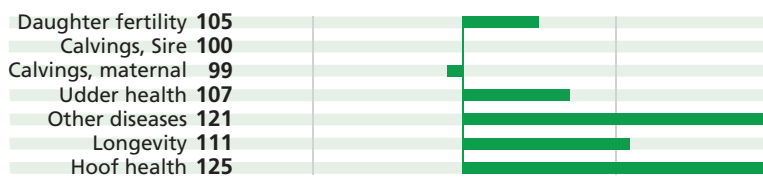


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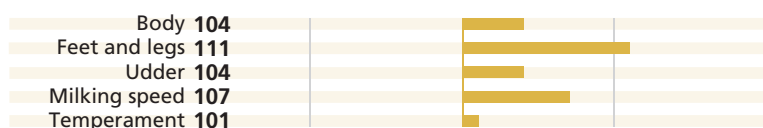
PRODUCTION TRAITS NO. OF DTRS 1626



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 657



NTM +24

EBV 2005 +1347 kg Milk +42 kg Fat +45 kg Prot.



Longevity



Daughter Fertility



Easy Calvings

D Grove



HOL 251010

S V GroovyBL

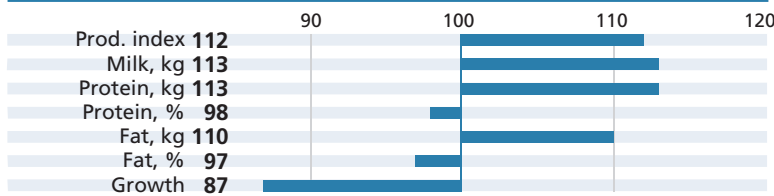
MGS D Novalis

MGGs HJ Vogd

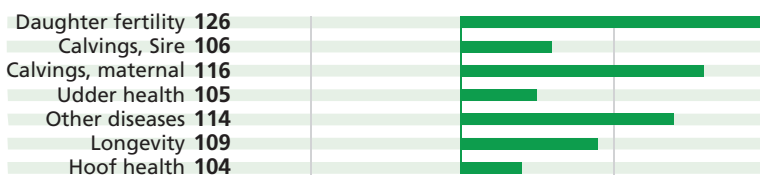
KappaCasein



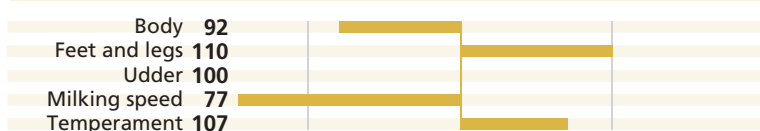
PRODUCTION TRAITS NO. OF DTRS 410



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 218



D Grove one of the highest ranking bulls in the breed based on daughters. D Grove is already used as GenVikPLUS bull and now confirms his superiority also with daughters. Dam is an EX 90 D Novalis – the foundation of a family that brings in several top bulls.

NTM +23

EBV 2005 +993 kg Milk +47 kg Fat +43 kg Prot.



Longevity

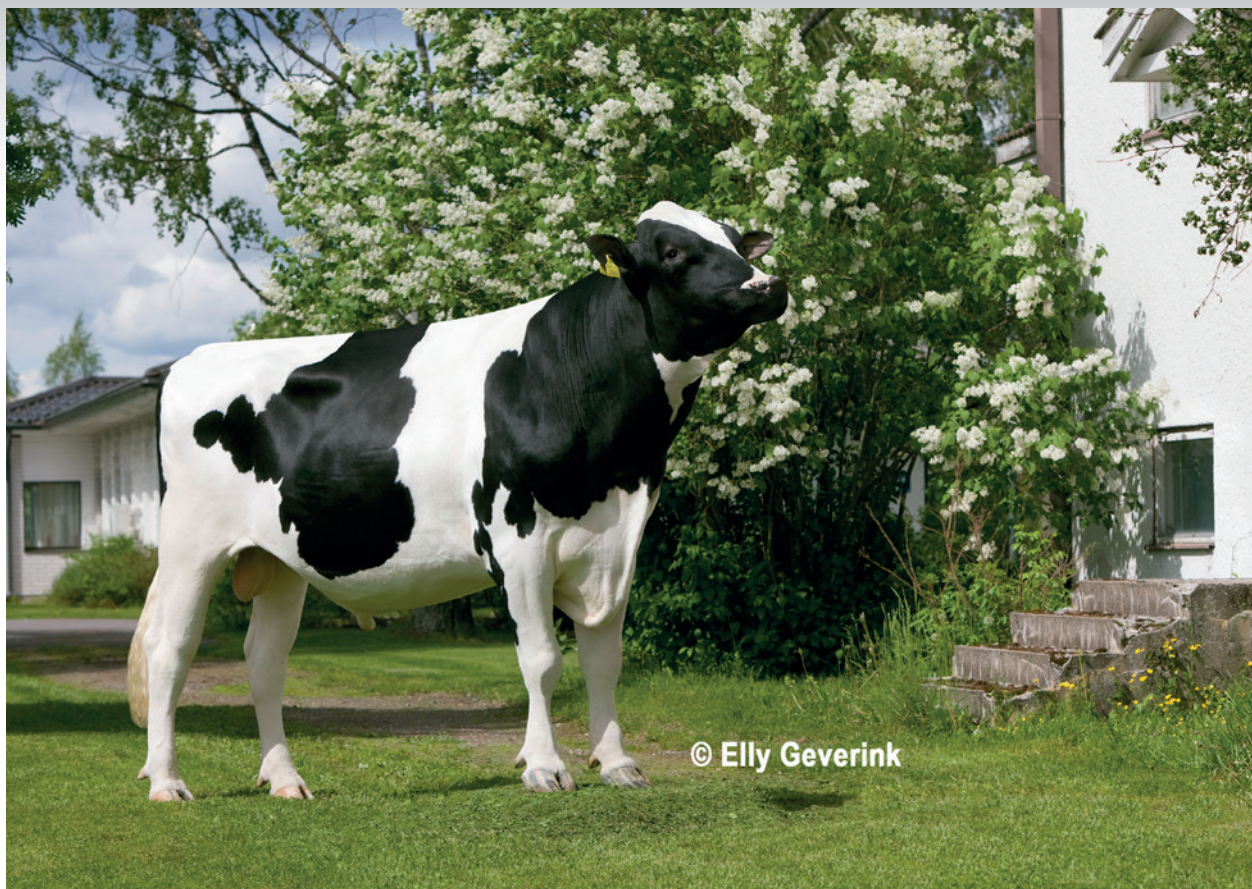


Daughter Fertility



Udder Health

VH Rudolf



© Elly Geverink



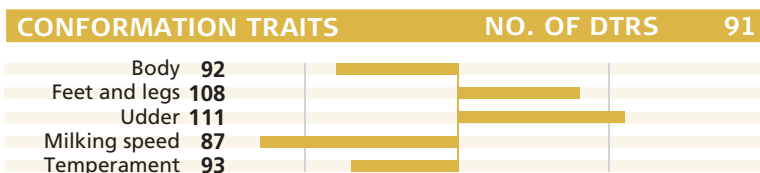
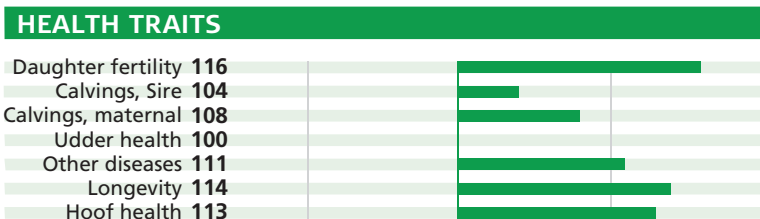
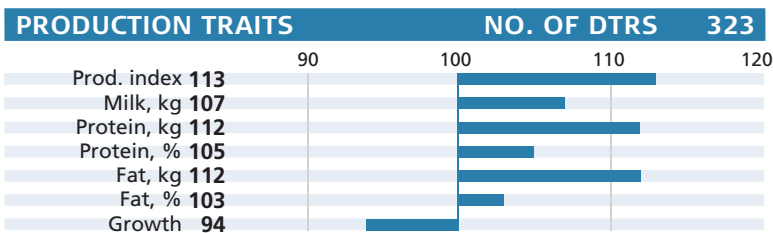
HOL 95209

S M.Rakuuna Tv

MGS Ramos

MGGS Trent Tv Mf

KappaCasein



VH Rudolf is the best of famous Rakuuna sons. He is like his sire, combination of good milk production and high components, excellent fertility and calving traits and good conformation. Together these mean of course good longevity!

NTM +23

EBV 2005

+78 kg Milk

+57 kg Fat

+32 kg Prot.



Longevity



Daughter Fertility



Conformation

VH Salomon



Alex Arkink



HOL 253100

S D Sammy

MGS Oman Justi

MGGs Merdrignac

KappaCasein BB



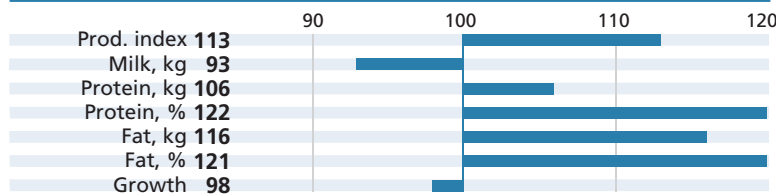
© Eily Geverink



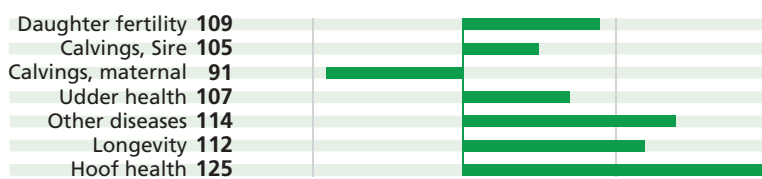
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PRODUCTION TRAITS

NO. OF DTRS 2657

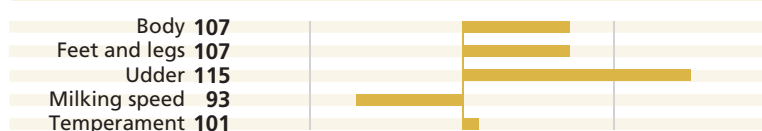


HEALTH TRAITS



CONFORMATION TRAITS

NO. OF DTRS 991



VH Salomon is a D Sammy son. He has a strong cow family behind. The dam produced in 4.4 lactations 11.300 kg milk with 4.86 % of fat and 3.73 % of protein. The daughters of Salomon also have also very high components, they are fertile with good longevity.

NTM +23

EBV 2005 +1498 kg Milk +68 kg Fat +55 kg Prot.



Longevity



Milk Production



Udder Health

D Mason



© Elly Geverink

D Mason contains some of the best bulls of Holstein breed: Mascol – Oman Justice – Lucas. On top of that from a cow family that has been in focus since well-known Leadman son, T Eberhard. D Mason is one of the best production bulls, with log of cow and good components and udder health.



HOL 251114

S Mascol

MGS Oman Justi

MGGs Lukas

KappaCasein AB



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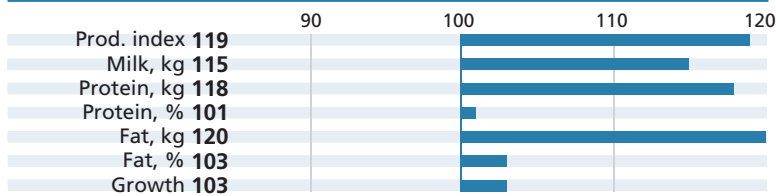


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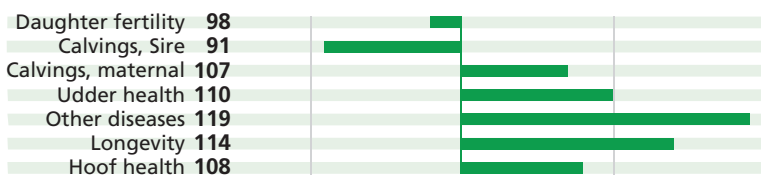


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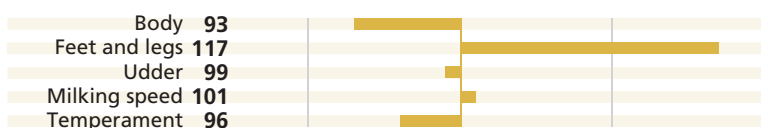
PRODUCTION TRAITS NO. OF DTRS 988



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 334



NTM +22

EBV 2005 +441 kg Milk +25 kg Fat +41 kg Prot.

VH Basten



© Elly Geverink



**VIKING
HOLSTEIN[®]**

HOL 253139

S D Banker

MGS T Lambada

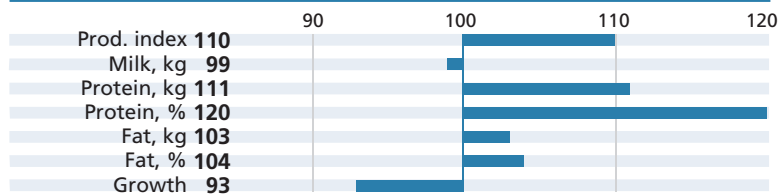
MGGs T Funkis

KappaCasein

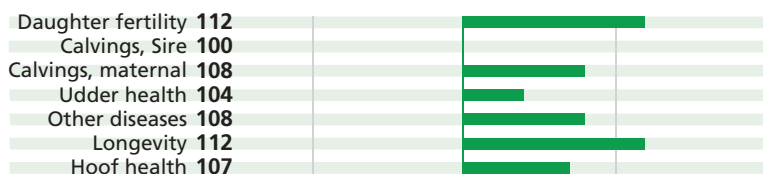


PRODUCTION TRAITS

NO. OF DTRS 216

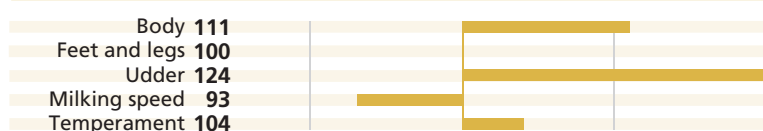


HEALTH TRAITS



CONFORMATION TRAITS

NO. OF DTRS 139



VH Basten is the best D Banker son. The dam – a T Lambada cow with 7.4 years production with an average of almost 12,000 kg milk and classified VG87. Essential traits like components, female fertility, udder health and calving ease are all positive and at the same time conformation is excellent !

NTM +21



EBV 2005 +1084 kg Milk +43 kg Fat +53 kg Prot.



Longevity



Udder Health



Conformation

VH Max



© Elly Geverink



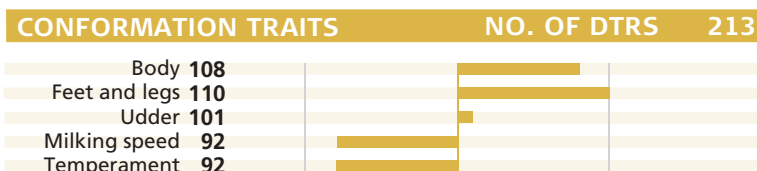
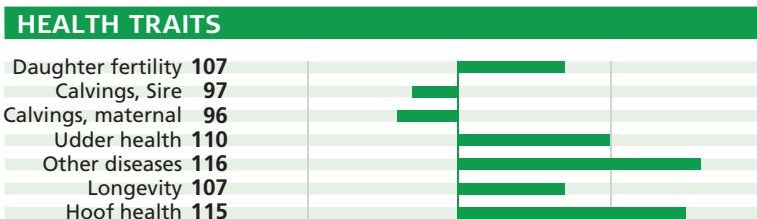
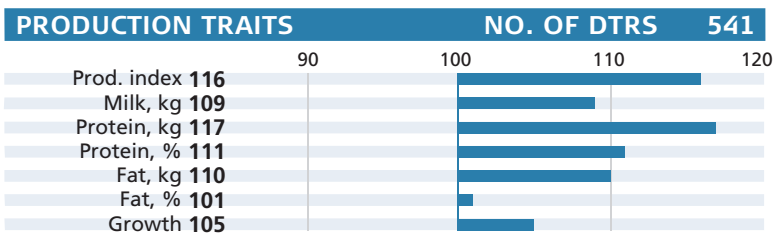
HOL 253419

S Mascol

MGS Oman Justi

MGGS Luxemburg

KappaCasein



VH Max is a Mascol son out of an O-Man dam. The daughters of the bull are very productive, both milk production and components are high. The daughters have good health and longevity. Good all-round bull without faults.

NTM +21

EBV 2005 +1423 kg Milk +23 kg Fat +59 kg Prot.



Longevity



Hoof Health



Easy Calvings

D Etoto



© Elly Geverink

D Etoto is a good result with topsire from VikingGenetics in the pedigree. The sire V Exces bringing production and super feet and legs, VAR Calano dam classified 88 and then back to T Funkis. D Etoto is one of the best feet and legs bulls of the breed.



HOL 250027

S V Exces

MGS VAR Calano

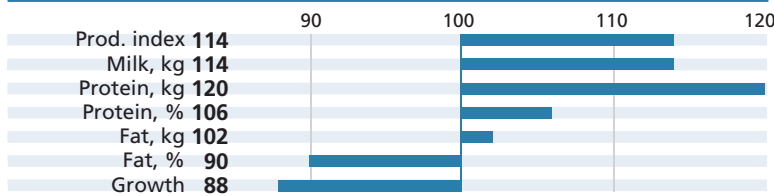
MGGs T Funkis

KappaCasein

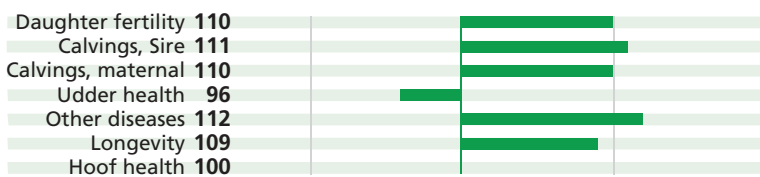


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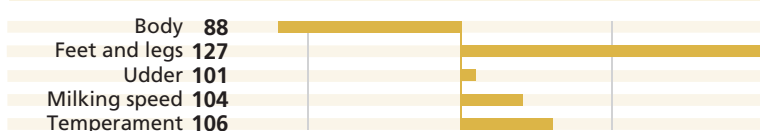
PRODUCTION TRAITS NO. OF DTRS 8939



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 3107



© Elly Geverink

NTM +20

EBV 2005 +2825 kg Milk +46 kg Fat +75 kg Prot.



Longevity



Conformation



Total Merit Index

VH Cadiz



Alex Arkink



HOL 253356

S D Cole

MGS S Jordan 3

MGGs S Morty

KappaCasein



© Elly Geverink



Alex Arkink

PRODUCTION TRAITS NO. OF DTRS 699

Trait	Value	90	100	110	120
Prod. index	120				
Milk, kg	136				
Protein, kg	128				
Protein, %	85				
Fat, kg	112				
Fat, %	82				
Growth	105				

HEALTH TRAITS

Trait	Value	90	100	110	120
Daughter fertility	106				
Calvings, Sire	103				
Calvings, maternal	110				
Udder health	92				
Other diseases	93				
Longevity	113				
Hoof health	120				

CONFORMATION TRAITS NO. OF DTRS 265

Trait	Value	90	100	110	120
Body	110				
Feet and legs	91				
Udder	107				
Milking speed	102				
Temperament	101				

VH Cadiz has an outcross pedigree: you cannot find a pedigree with D Cole as a sire and S Jordan as a MGS! Lot of milk, lot of protein and fat. Good for heifers, too. Notice these: hoof health 120, milking speed 105 and longevity 113!

NTM +19



EBV 2005

+629 kg Milk

+43 kg Fat

+29 kg Prot.



Longevity



Daughter Fertility



Hoof Health

D Sol



© Elly Geverink

D Sol – the Shottle son that continuously excels. The dam is an EX92 T Funkis daughter, and has produced more than 120,000 kg of milk and is still producing in the herd. An overall super breeding pattern on D Sol, without any major weaknesses. Note: he is carrier of BY.



HOL 250354

S P Shottle

MGS T Funkis

MGGs VE Otto

KappaCasein AA

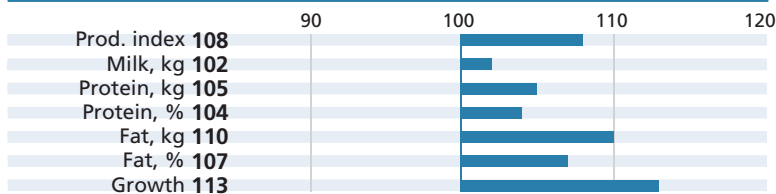


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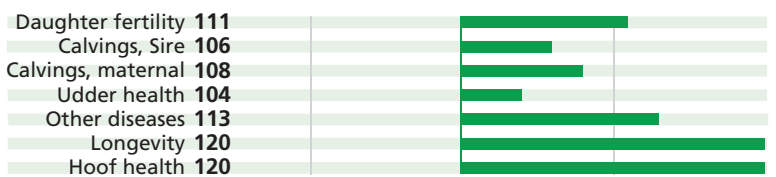


© Elly Geverink

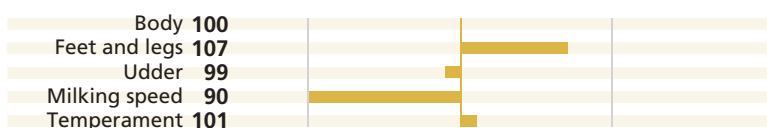
PRODUCTION TRAITS NO. OF DTRS 5630



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 2071



EBV 2005 +214 kg Milk +8 kg Fat +23 kg Prot.

NTM +18 S Ross



HOL 48202
S Chassee
MGS T Funkis
MGGS Häradsköp



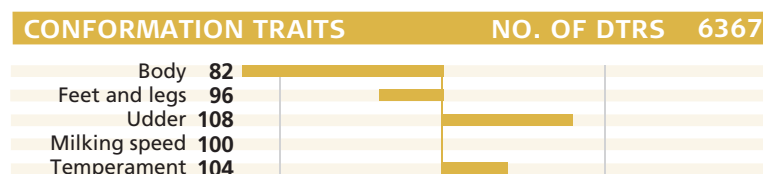
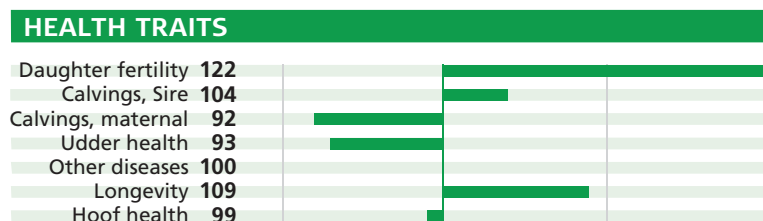
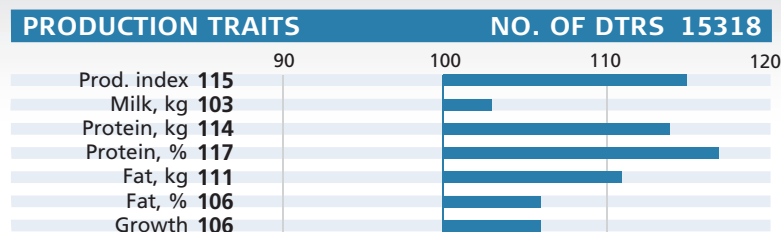
Longevity



Daughter Fertility



Components



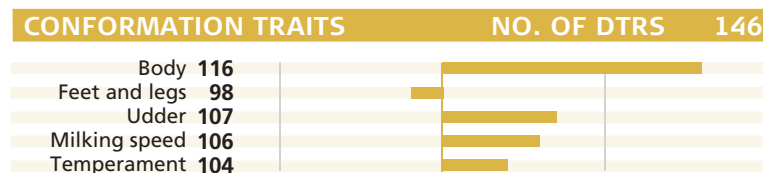
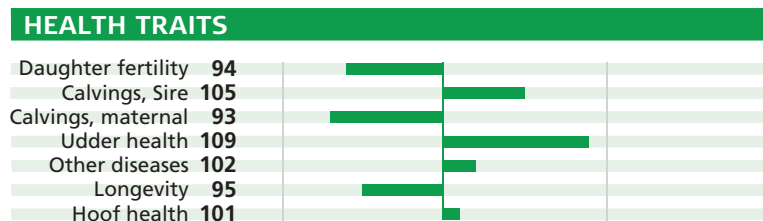
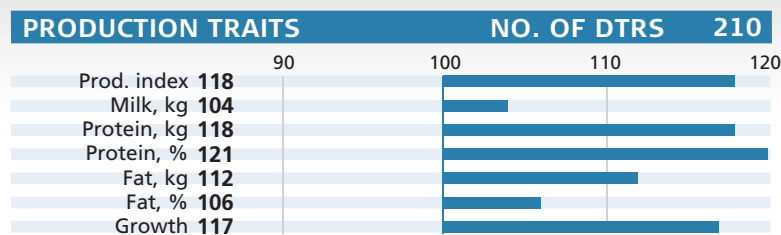
S Ross is a bull that just seems to improve the older his daughters get. A true expert in fertility, but at the same time adding a lot of production. The dam of S Ross, a long-living T Funkis cow, calving interval of 11.5 month after 5 calvings, producing 58 tons in total.

EBV 2005 +214 kg Milk +8 kg Fat +23 kg Prot.

NTM +17 VH Strong



HOL 253208
S Stol Joc
MGS Oman Justi
MGGS D L Aaron



VH Strong originates from the German family Genua – the dam of VH Strong is Tir-An Oman Geneve (VG86). A production level at 120. He breeds powerful and robust animals that will create profit for the farmer!

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: Eilly Gevertink



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The best cows are almost invisible

*Choose NTM – Nordic Total Merit
– for maximum production
and minimum of problems.
Then profit comes naturally!*

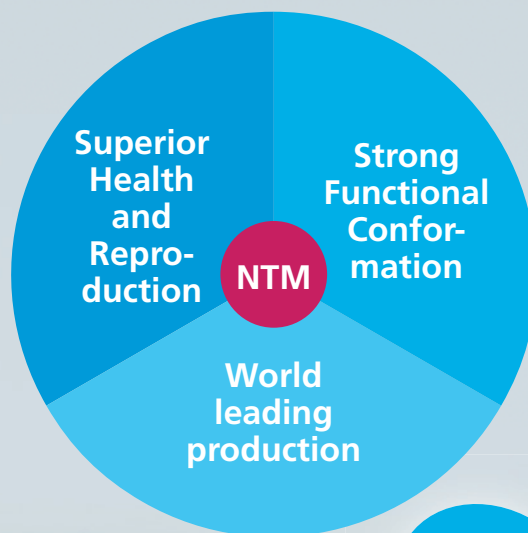


Photo Elly Geverink



Viking Top 10 – make your choice!

NTM	
VH Boogie	38
VH Reynold	37
VH Miracle	36
VH Ponder	36
VH Clement	36
VH Mandel	35
VH Jaywalk	35
VH Grafit	33
VH Miguel	33
VH John	32

PRODUCTION	
VH Ponder	128
VH Jaywalk	127
VH Grafit	126
VH Gavin	126
VH Op	125
VH Goblin	122
VH Reynold	121
VH Oneal P	120
VH Cadiz	120
D Mason	119

DAUGHTER FERTILITY	
VH Black	129
D Grove	126
VH Redwood	123
S Ross	122
VH Albion	121
VH Ponder	119
VH Miracle	117
VH Op	116
VH Blume	116
VH Rudolf	116

CALVINGS SIRE	
VH Barkley	114
VH Clement	114
VH Redwood	112
VH Albion	112
VH Ponder	111
D Etoto	111
VH Blume	107
VH Boogie	107
VH Oneal P	107
D Grove	106

UDDER HEALTH	
VH Boogie	123
VH Clement	119
VH Redwood	119
VH Miguel	117
VH John	116
VH Black	116
VH Barkley	113
VH Albion	113
VH Miracle	113
VH Reynold	112

HOOF HEALTH	
VH Salomon	125
VH Oyvind	125
VH Gregor	124
VH Reynold	123
D Sol	120
VH Cadiz	120
VH Miguel	118
VH Albion	118
VH Oneal P	116
VH Max	115

LONGEVITY	
VH Miracle	131
VH Gregor	126
VH Miguel	126
VH Op	125
VH Clement	125
VH Blume	124
VH Reynold	121
VH Albion	121
VH John	121
VH Jaywalk	121

UDDER	
VH Mandel	137
VH Redwood	132
VH Clement	131
VH Boogie	129
VH Miracle	125
VH Basten	124
VH Blume	120
VH Barkley	120
VH Jaywalk	115
VH Salomon	115

FEET & LEGS	
D Etoto	127
VH Barkley	121
VH Miguel	120
D Mason	117
VH Redwood	116
VH Gavin	113
VH Boogie	111
VH Oyvind	111
VH Grafit	110
VH Albion	110

Use sexed semen by VikingGenetics!

By using VikingGenetics X-Vik you obtain the following benefits:

- Estimated 90 % females
- Excellent fertility results
- Many heifers to sell or replace cows and increase your herd
- Easy calvings
- Higher profit





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Fast track your herd with Genomic Bulls!

VikingGenetics **Holstein Genomic Programme** is the 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 preselected on their genomic values, to ensure that only the best of the best go through progeny testing. Unique registration 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 services for progeny testing, and are marketed as GenVikPLUS. Here we can offer you the very best bulls, with the most interesting pedigrees.



VH Boogie



Alex Arkink



HOL 255962

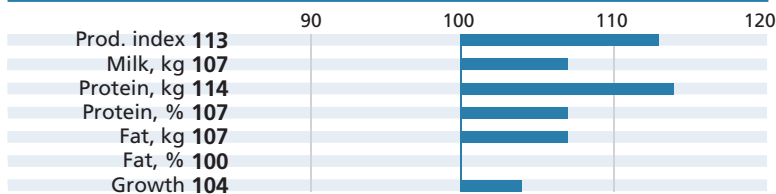
S Bookem

MGS Man-O-Man

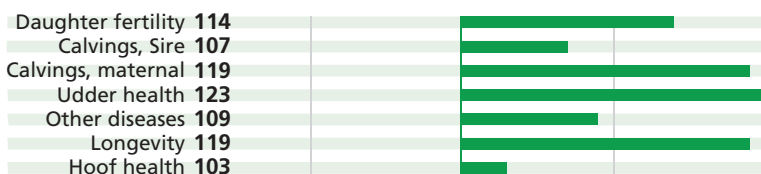
MGGS RGK Didrik

KappaCasein

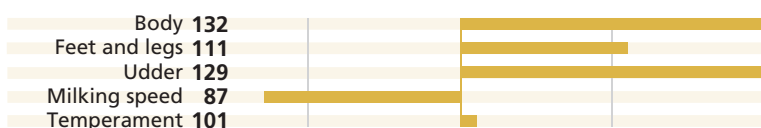
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



VH Anderstrup Bookem Boogie is the Bookem son. The dam has a nice pedigree, Man-O-Man as a sire and Didrik as MGS. Easy calvings and good fertility. Look at that conformation: all udder traits are positive. If you are looking for body capacity, remember this bull!

NTM +37

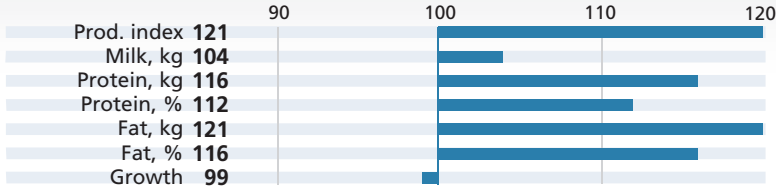
GENVIK[®] PLUS

VH Reynold

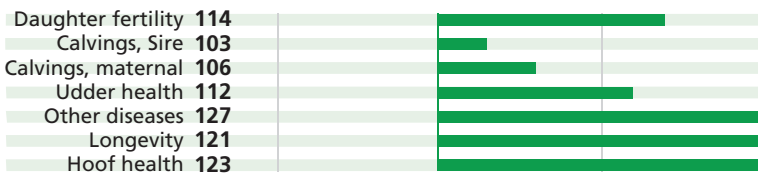


HOL 256184
S Ramado
MGS Man-O-Man
MGGS T Funkis

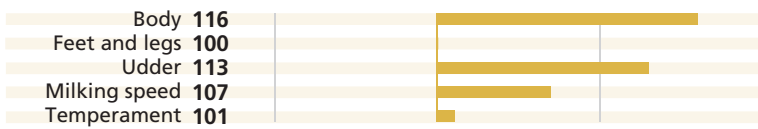
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



© Elly Geverink

New number 2: VH Ramado Reynold! VH Reynold is a ramado son out of Man-O-Man dam. Excellent production with high components. And healthy daughters: excellent genomic proofs for udder health and other treatments, hoof health and longevity.

NTM +36

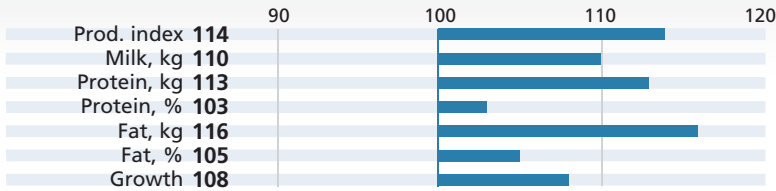
GENVIK[®] PLUS

VH Clement

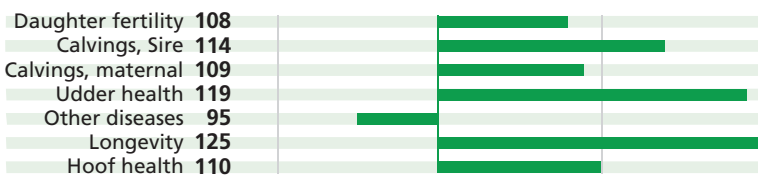


HOL 256209
S CM
MGS Juwel
MGGS Oman Justi

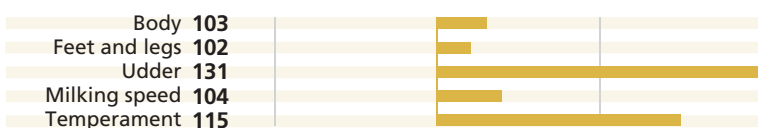
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



Alex Arkink

VH Clement is sired by CM, Juwel as a MGS. This combination provides daughters with excellent udders, both for type and health! Very good for heifers, calving ease bull both as sire and maternal grandsire.

NTM +36

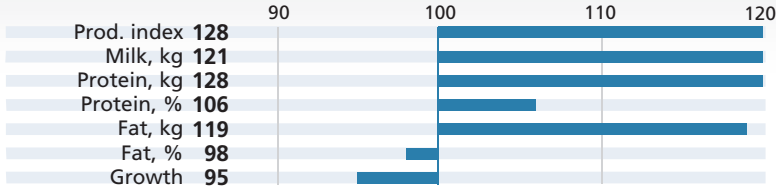
GENVIK[®] PLUS

VH Ponder

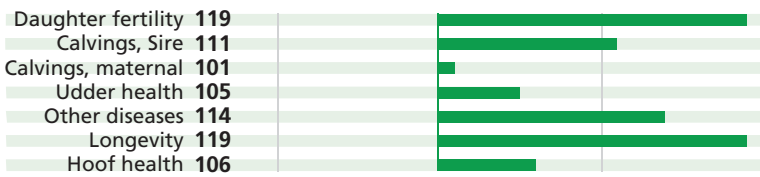


HOL 256205
S VH Peder
MGS D Onside
MGGS V Exces

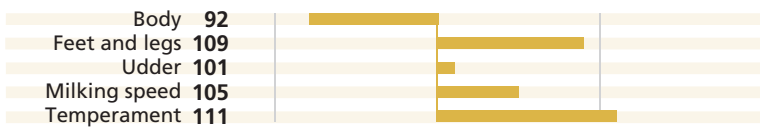
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



Alex Arkink

VH Ponder is a VH Peder son and he is a real production bull. Ponder has excellent genomic values for daughter fertility, health and longevity. Easy calvings make him a good choice for heifers.

NTM +36

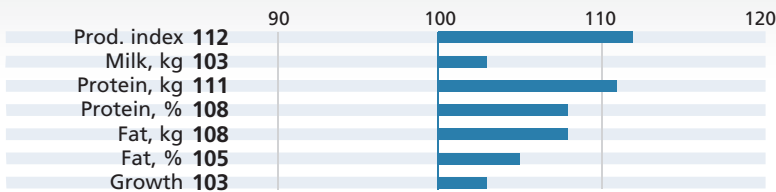
GENVIK[®] PLUS

VH Miracle

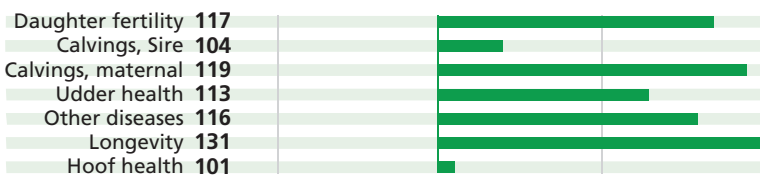


HOL 254418
S Massey
MGS Roumare
MGGS VAR Calano

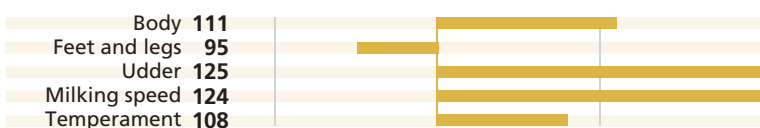
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



Longevity



Daughter Fertility



Easy Calvings



© Elly Geverink

VH Miracle has excellent pedigree: Massey x Roumare (VG89) x VAR Calano EX92 x Lukas EX90). He has been at the very top among genomic sires a long time. His profile is very appealing to everybody: production, fertility, calving ease, health, conformation and longevity!

NTM +35

VH Mandel

GENVIK[®] PLUS

X-VIK[®]

VIKING
HOLSTEIN[®]

HOL 254168
S Man-O-Man
MGS RGK Didrik
MGGS V Bojer



Longevity

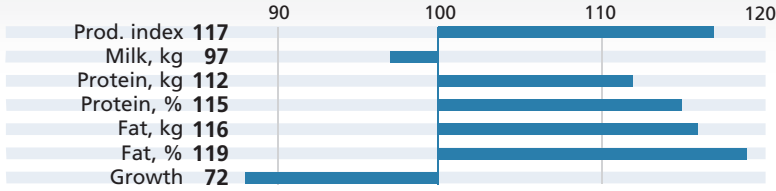


Udder Health

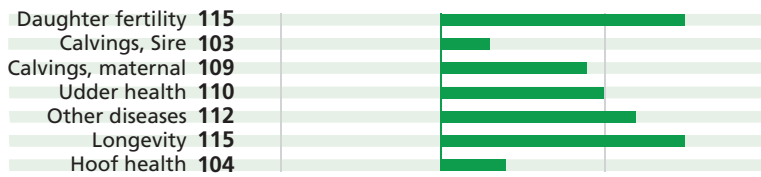


Conformation

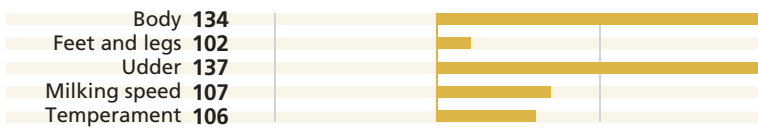
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



© Elly Geverink

VH Mandel is from a super RGK Didrik x V Bojer cow classified EX 92. The strong family behind creates the balance together with Man-O-Man on health and calving abilities. He is a true specialist when it comes to udders!

NTM +35

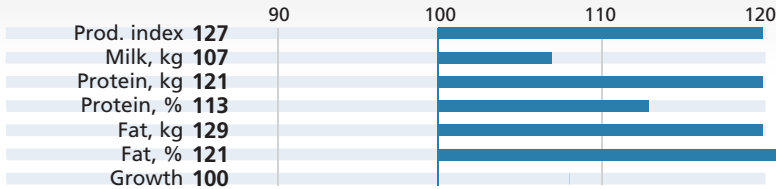
VH Jaywalk

GENVIK[®] PLUS

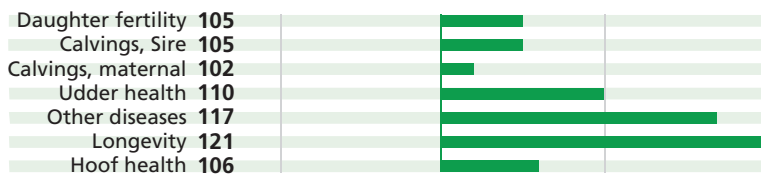
VIKING
HOLSTEIN[®]

HOL 255788
S D Jul
MGS Oman Justi
MGGS Lancelot

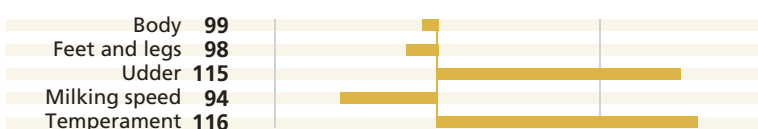
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



© Elly Geverink

VH Jaywalk is the best of D Jul sons. Good package of production and fertility. Very good proofs for udder health and other treatments as well as for temperament and hoof health, so it means good longevity!

NTM +33

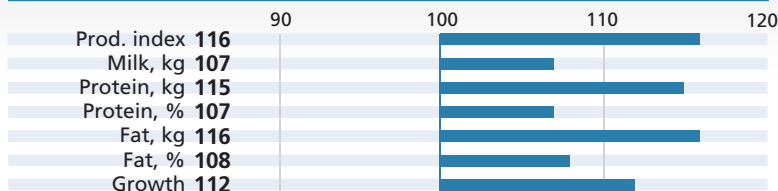
GENVIK[®] PLUS

VH Miguel



HOL 255750
S D Mason
MGS D Sol
MGGS V Ersgard

PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



© Elly Geverink

VH Miguel is the highest genomic bull in Viking Genetics. This D Mason son, D Sol as a MGS, has excellent proofs for production and fertility. In health traits he is really a top bull!

NTM +32

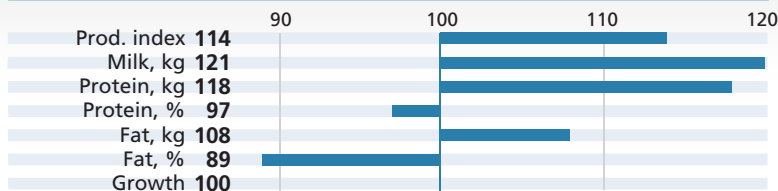
GENVIK[®] PLUS

VH Barkley

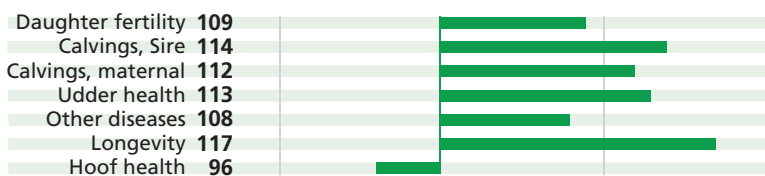


HOL 255755
S Bookem
MGS Gibor
MGGS Sharky

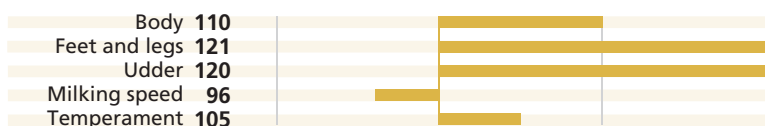
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



Alex Arkink

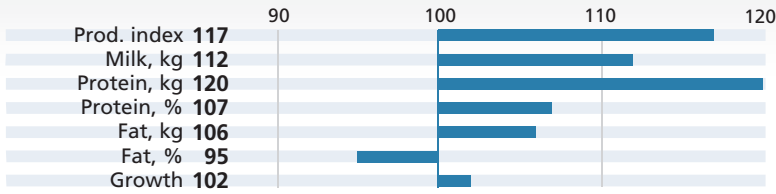
VH Barkley is a great combination of production and type! Look: the production index 114, body 109, feet and legs 121 and udder conformation 120! And still you get good fertility, udder health and longevity. Calving ease as a sire 123!

NTM +32 VH John

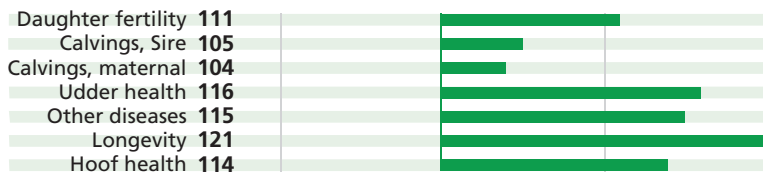


HOL 255754
S D Jul
MGS V GroovyBL
MGGs V Exces

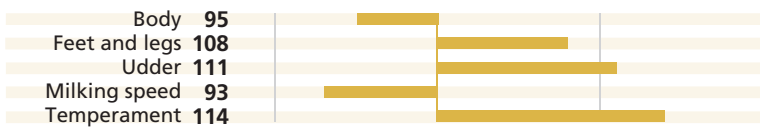
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



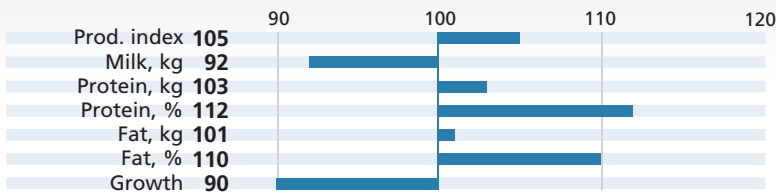
VH John has a Danish pedigree D Jul as a sire and V Groovy as MGS and V Exces as an MGGs. VH John is a very functional sire. He has very good proofs for udder health, temperament, hoof health and longevity. Calving ease bull for heifers.

NTM +31 VH Redwood



HOL 255624
S Router
MGS Fibrax
MGGs Oman Justi

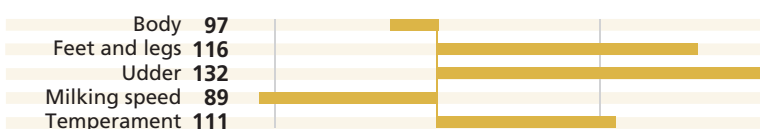
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



VH Redwood has an interesting pedigree: the sire is Router and MGS Fibrax. If you are looking for good type, VH Redwood is a good choice. Beside of conformation you will get fertile heifers with good udder health. Calving ease bull, good for heifers!

NTM +31

VH Gregor

GENVIK[®] PLUS



HOL 255190

S VH Grafit

MGS V Exces

MGGS V Bojer



Longevity

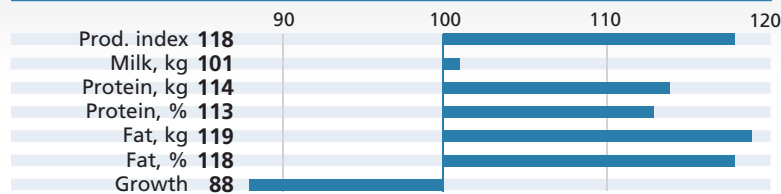


Hoof Health

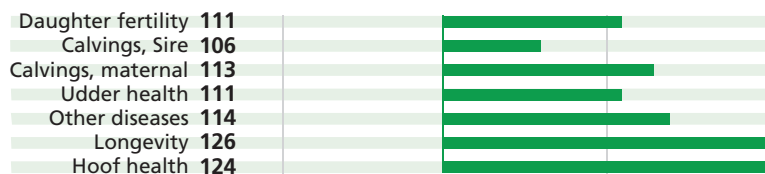


Easy Calvings

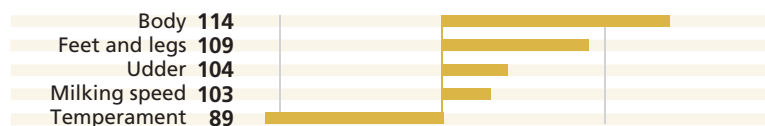
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



© Elly Geverink

VH Gregor is one of very good VH Grafit sons. The dam is out of V Exces so this combination promises good production. VH Gregor is a very functional bull: notice that fertility, calving traits, udder health and hoof health: it means longevity!

NTM +31

VH Gavin

GENVIK[®] PLUS



HOL 255183

S VH Grafit

MGS D Onside

MGGS Mascol



Longevity

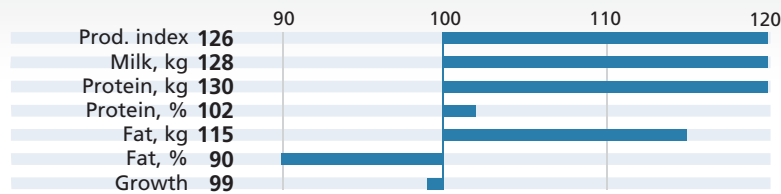


Daughter Fertility

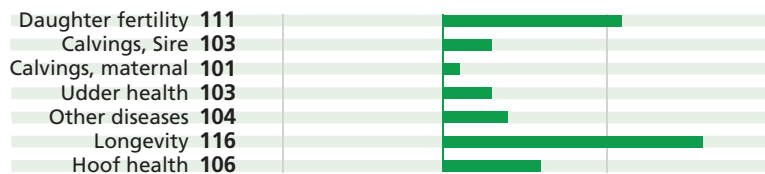


Conformation

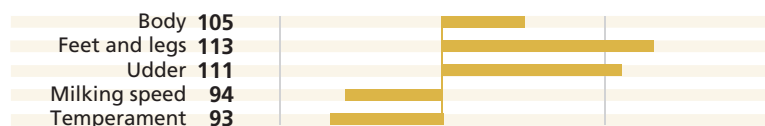
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



© Elly Geverink

VH Gavin is the second best of VH Grafit genomic sons in the list now. The dam of the bull is an Onside daughter. Gavin has excellent breeding values for production as well as for conformation. No faults and easy to use in every herd!

NTM +31 VH Blume



HOL 254934
S Bowser
MGS B Goldwyn
MGGs Oman Justi



Longevity

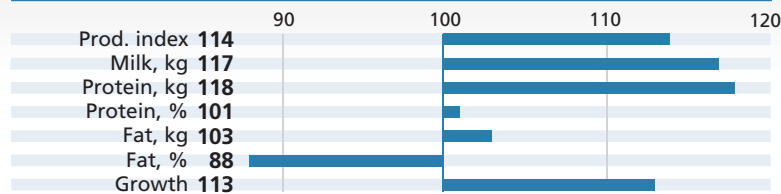


Daughter Fertility

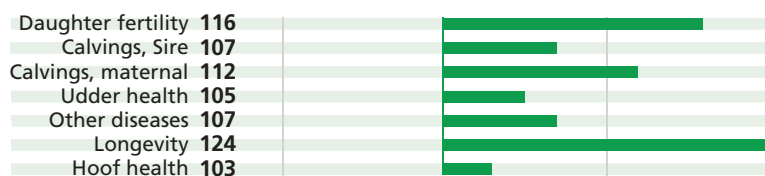


Conformation

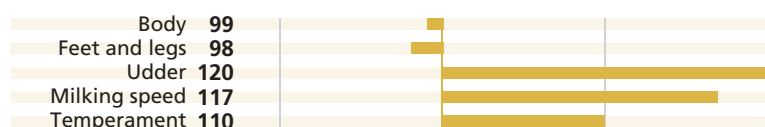
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



Alex Arkink

VH Blume is a Bowser son out of Goldwyn dam. If you need more milk, Blume is a good choice for that. Even the production level is high; udder health is good as well as conformation. Good bull to produce daughters for robotic milking: milking speed index is 119.

NTM +29 VH Goblin



HOL 96307
S VH Grafit
MGS Fibrax
MGGs Buckeye ET



Longevity

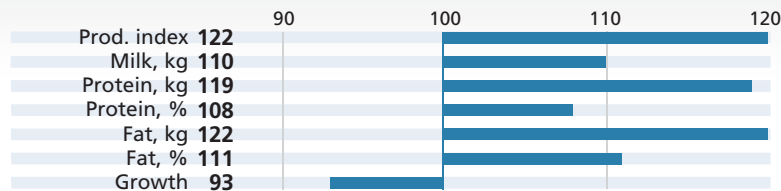


Udder Health

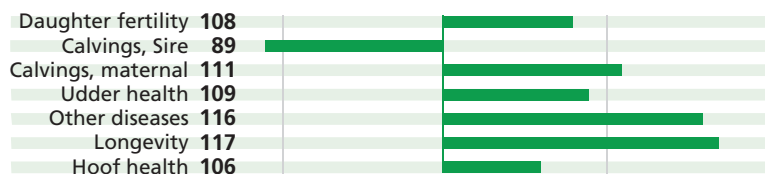


Conformation

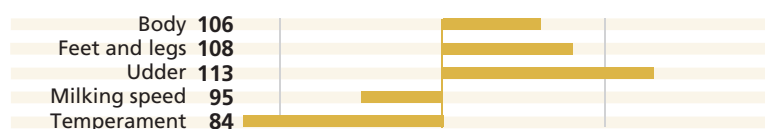
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



© Elly Geverink

VH Goblin is a son of the B Goldwyn x Oman Justi son VH Grafit. VH Goblin is a Finnish born bull born from a strong Fibrax cow classified VG86. VH Goblin is a bull with a lot of positive traits and is able to add production, health and fertility at the same time.

NTM +29

VH Albion

GENVIK[®] PLUS

X-VIK[®]

VIKING
HOLSTEIN[®]

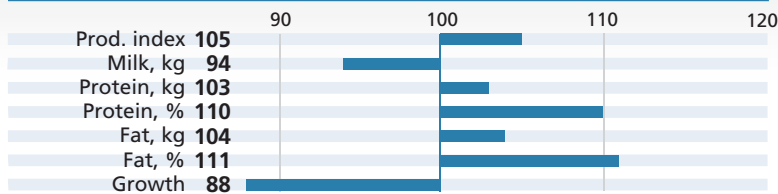
HOL 255412

S Ammus

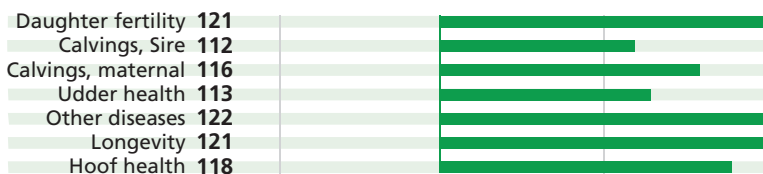
MGS D Banker

MGGS V GroovyBL

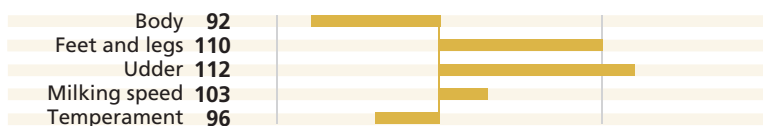
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



© Elly Geverink

VH Albion is the oldest son of V Ammus. He has a nice pedigree, the dam is out of D Banker. VH Ammus is very good in functional traits: fertility, udder health, hoof health and milking speed. Easy calving bull, good for your heifers!

NTM +23

VH Oneal P

GENVIK[®] PLUS

VIKING
HOLSTEIN[®]

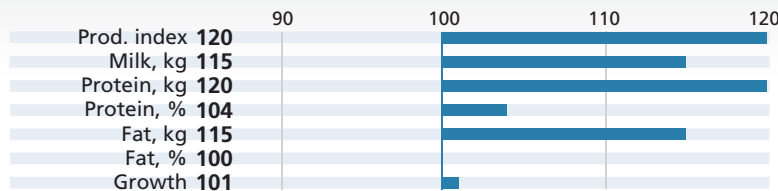
HOL 255423

S VH Ove P

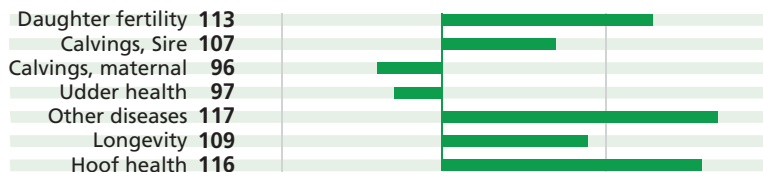
MGS Stäme-ET

MGGS V Exces

PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



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Note the sire line on this polled bull VH Oneal P. The sire VH Ove P is a VH Olav P x D Limbo, so a very different provider of the polled gene. VH Oneal P is high protein bull with 124 in protein production and breeds super female fertility and a good health in general. Conformation is around average and in general an "easy to use" bull.

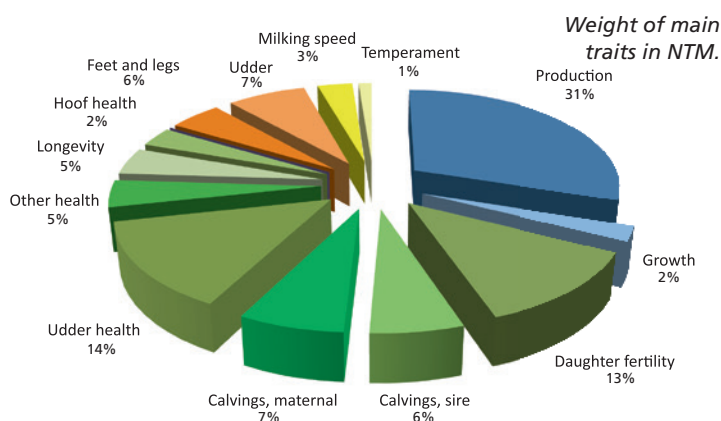
Understand the benefit from high NTM – increased profit!

1. 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.



2. How are the indexes in NTM expressed?

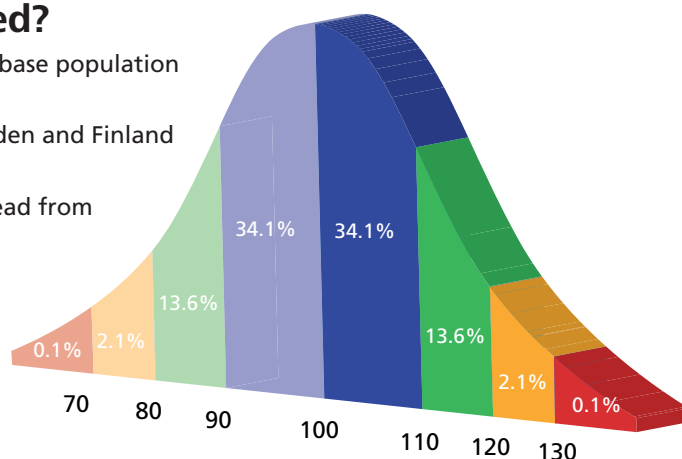
EBVs of all animals are adjusted in such a way that animals in the base population have an average index of 100.

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 away from the mean in either direction (the purple area) accounts for about 68 % of the bulls.



3. The value of NTM units

The value of +10 NTM units for the sire is the same as 100 Euro added value for the heifer under Scandinavian conditions.

The value of +10 units for production traits

Milk index	+ 160 kg milk
Fat index	+ 8.6 kg fat
Fat percentage	+ 0.13 %
Protein index	+ 6.1 kg protein
Protein percentage	+ 0.08 %
Growth	+ 8 g/day. Higher weight gain of bull calves

Calculation of production index	- 0.25 x Milk + 0.25 x Fat + 1 x Protein
---------------------------------	--

The value of +10 units for functional traits

Daughter fertility	Days open reduced by 8 days and 0.03 less services per pregnancy
Calvings, Sire (Maiden heifers)	Reduction in difficult calvings with 2 % and 1 % less stillborn calves
Calvings, Maternal (Maiden heifers)	Reduction in difficult calvings with 8 % and 2 % less stillborn calves
Udder health	1.8 % units less mastitis treatments in first lactation. 2.6 % units less mastitis treatments in second and third lactation
Other diseases	2.7 % units less treatments for reproduction diseases, metabolic disorders and diseases in hooves, feet and legs in first and second lactation. 3.6 % units less treatments for the same diseases in third lactation
Milking speed	9.5 g fat + protein more per minute (robots and farmer observation)
Longevity	36 days longer productive life

How to read VikingGenetics breeding values

1 NTM

See left page.

2 Production

Production Index: Based on amount of protein, fat and milk. There is a slight negative weighting applied to the milk quantity, in order to maintain concentration.

Growth: Based on data from slaughtered male progeny. Includes growth and carcass classification.

3 Health

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.

Calving index, sire: Based on calving difficulties and number of stillborn calves from first calvers as well as later lactations.

Calving index, maternal: Expresses the ability of the bulls' daughters to give birth to a living calf at their first calving.

Udder health: Based on mastitis diagnoses, 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.

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

Longevity: Productive life, days from 1st calving, max 365 d/lactation. Information from the first five lactations.

Hoof health: Based on lesion scoring reported by hoof trimmers. Includes both infectious and laminitis related lesions with highest weight put on sole ulcer.

4 Conformation

A comprehensive classification of body, legs and udder. Based on a linear description of conformation traits.

Legs: A comprehensive evaluation of the legs.

Udder: A comprehensive evaluation of the udder.

Temperament: Based on farmer's observations.

Milking Speed: Based on farmer's observations.



5 Main characteristics

Symbols showing the main characteristics of the bull.



Longevity



Daughter Fertility



Total Merit Index



Components



Easy Calvings



Milk Production



Udder Health



Conformation



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