

Sire Directory 2014

Online edition – May



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 +35

EBV 2005 +1625 kg Milk +86 kg Fat +69 kg Prot.



Longevity



Easy Calvings



Conformation

VH Grafrit



© Elly Geverink

VH Grafrit 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

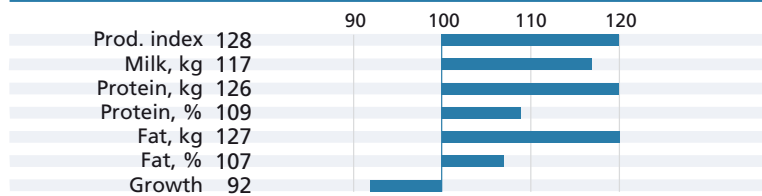


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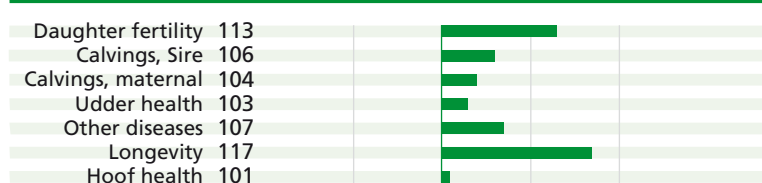


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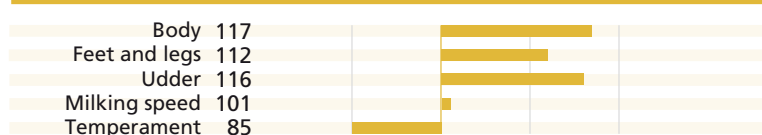
PRODUCTION TRAITS NO. OF DTRS 1904



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 608



NTM +27

EBV 2000 +1381 kg Milk +66 kg Fat +75 kg Prot.



Longevity



Milk Production



Components

D Jul



© Elly Geverink

D Jul is very rare of its kind. This is a true outcross bull – No Oman, Ramos, B Goldwyn, P Shottle in the pedigree, and among the very best based on daughter proof. Do you dare to try something different?



HOL 250423

S S Jordan 3

MGS Riverland

MGGs R Brett

KappaCasein AB



© Elly Geverink



© Elly Geverink



© Elly Geverink

PRODUCTION TRAITS NO. OF DTRS 3249

	90	100	110	120
Prod. index	128			
Milk, kg	114			
Protein, kg	128			
Protein, %	119			
Fat, kg	119			
Fat, %	104			
Growth	110			

HEALTH TRAITS

Daughter fertility	95			
Calvings, Sire	105			
Calvings, maternal	92			
Udder health	107			
Other diseases	101			
Longevity	114			
Hoof health	105			

CONFORMATION TRAITS NO. OF DTRS 872

Body	87			
Feet and legs	99			
Udder	113			
Milking speed	92			
Temperament	111			

NTM +27

EBV 2000 +1189 kg Milk +35 kg Fat +41 kg Prot.



Longevity



Daughter Fertility



Udder Health

VH Black



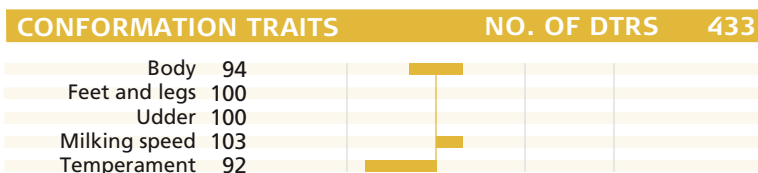
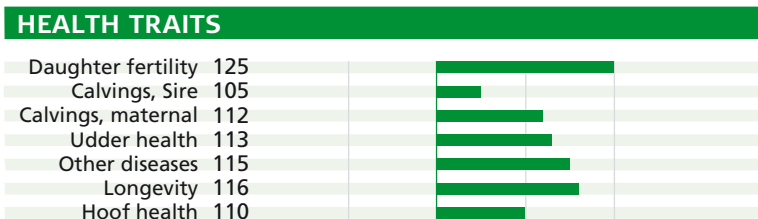
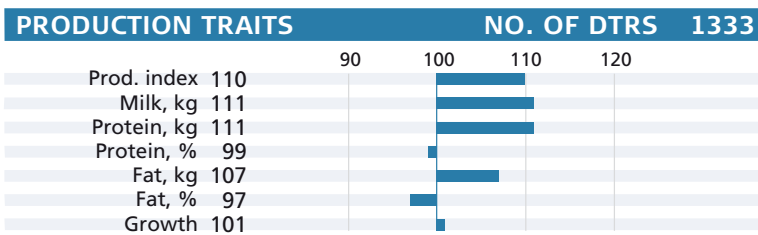
HOL 253186

S Bobas

MGS Oman Justi

MGGS RGK Bob CV

KappaCasein AB



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 somaticcell count and much less mastitisthan average.

NTM +26

EBV 2005 +494 kg Milk +29 kg Fat +43 kg Prot.

VH Basten

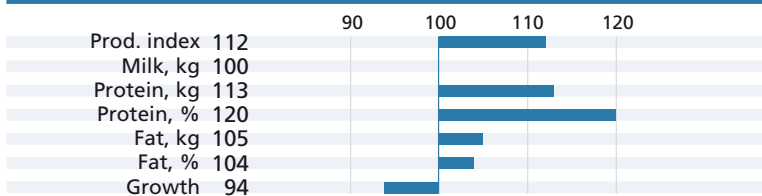


Alex Arkink

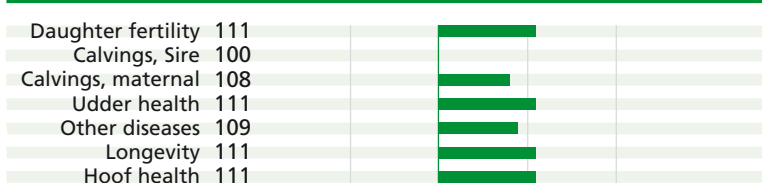


HOL 253139
S D Banker
MGS T Lambada
MGGS T Funkis

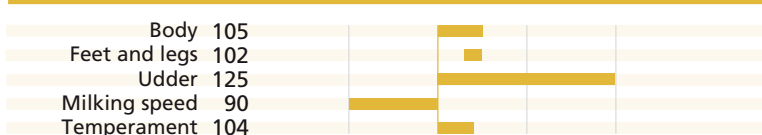
PRODUCTION TRAITS NO. OF DTRS 215



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 138



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 +26

EBV 2005 +400 kg Milk +62 kg Fat +42 kg Prot.



Longevity

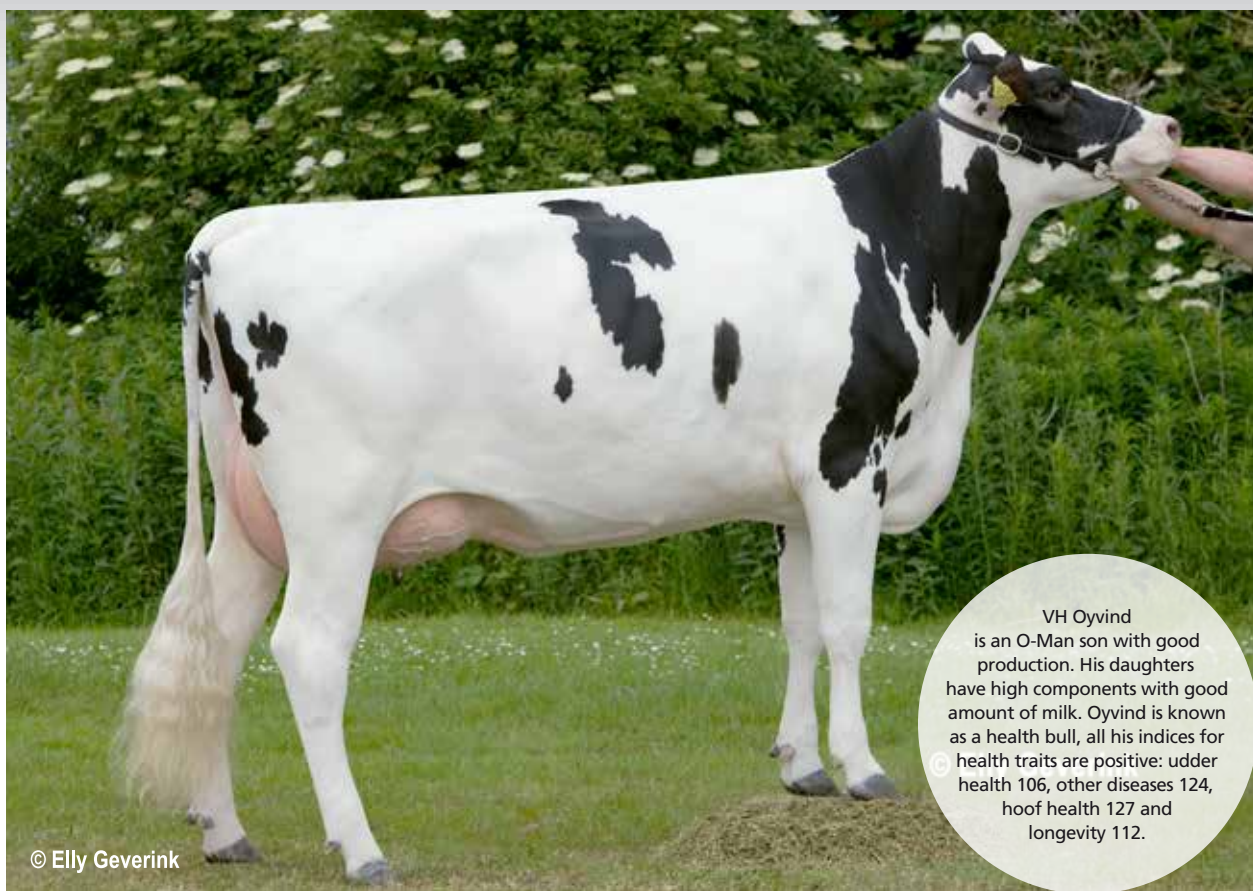


Hoof Health



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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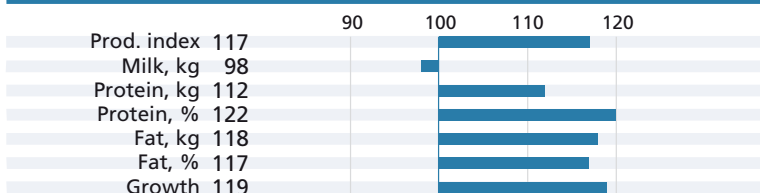


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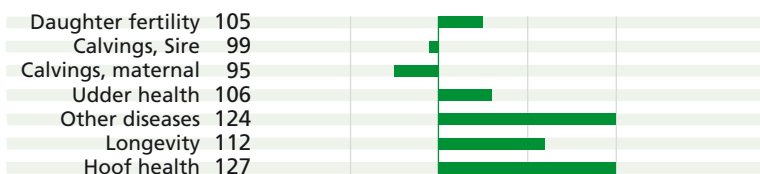


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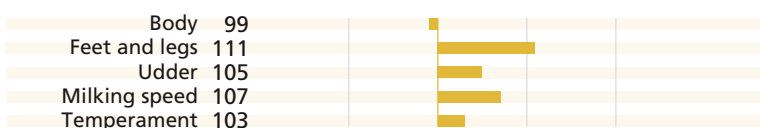
PRODUCTION TRAITS NO. OF DTRS 1182



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 562



NTM +26

EBV 2005 +1358 kg Milk +41 kg Fat +45 kg Prot.



Longevity



Daughter Fertility



Easy Calvings

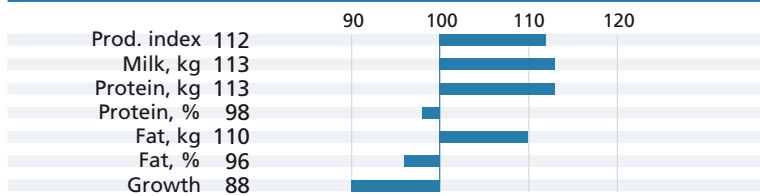
D Grove



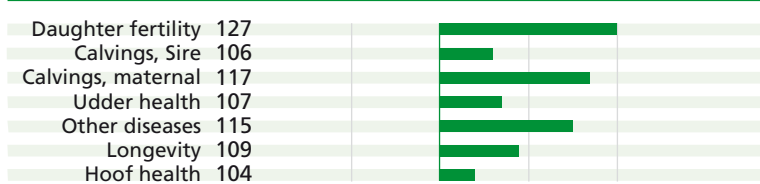
HOL 251010
S V GroovyBL
MGS D Novalis
MGGS HJ Vogd



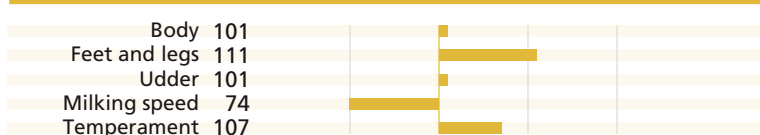
PRODUCTION TRAITS NO. OF DTRS 404



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 215



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 +25

EBV 2005 +1629 kg Milk +70 kg Fat +59 kg Prot.



Longevity

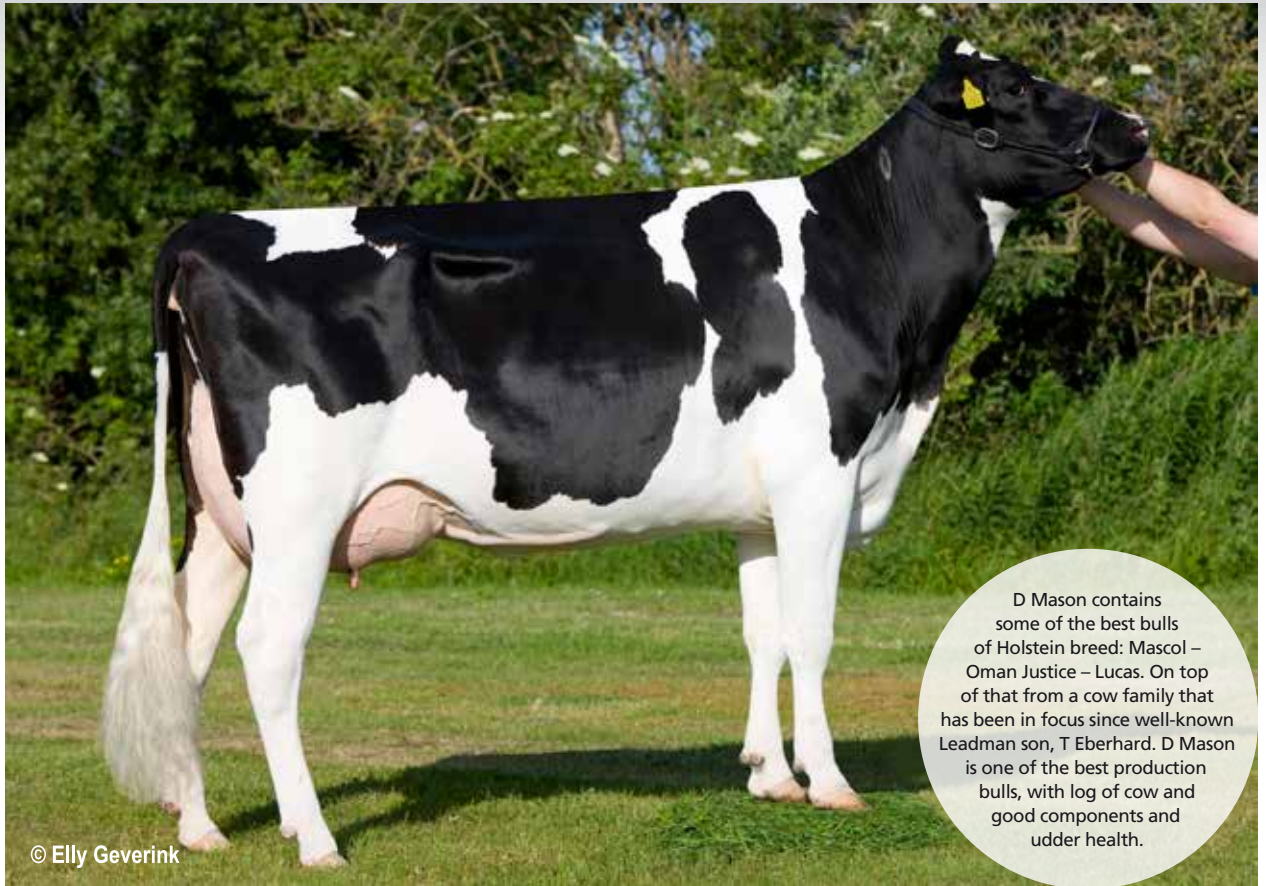


Milk Production



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

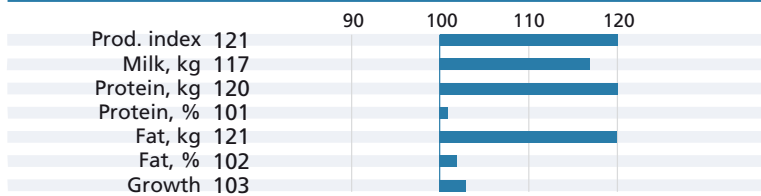
MGS Oman Justi

MGGS Lukas

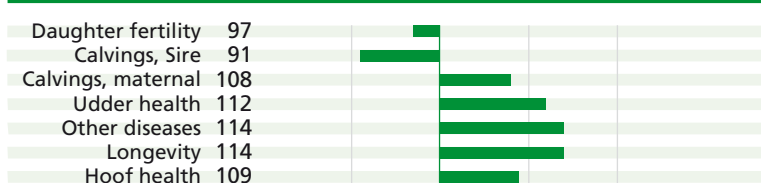
KappaCasein AB



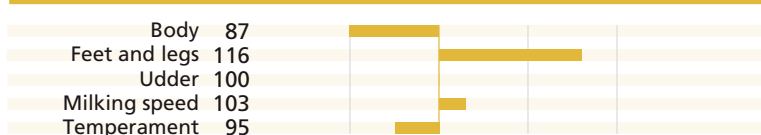
PRODUCTION TRAITS NO. OF DTRS 434



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 237



NTM +25

EBV 2005 +910 kg Milk +32 kg Fat +39 kg Prot.



Longevity



Daughter Fertility



Udder Health

VH Rudolf



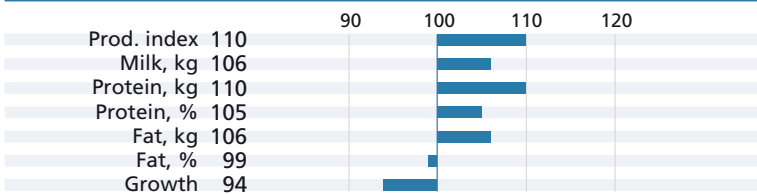
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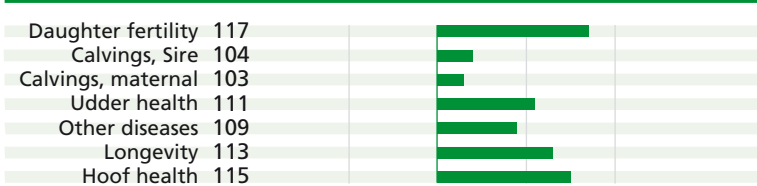
HOL 95209
S M.Rakuuna Tv
MGS Ramos
MGGS Trent Tv Mf



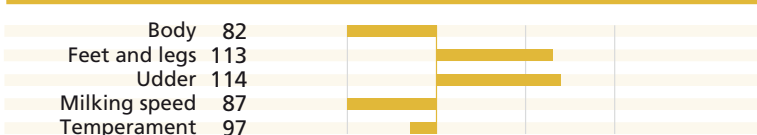
PRODUCTION TRAITS NO. OF DTRS 225



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 48



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 +22

EBV 2005

-11 kg Milk +52 kg Fat +28 kg Prot.



Longevity



Daughter Fertility



Conformation

VH Salomon



Alex Arkink



HOL 253100

S D Sammy

MGS Oman Justi

MGGS Merdrignac

KappaCasein BB

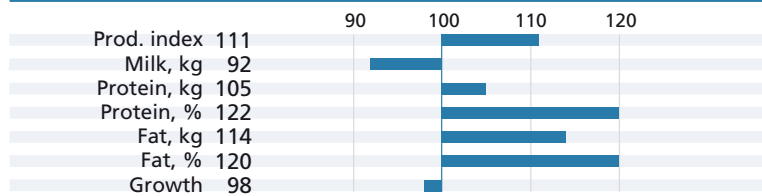


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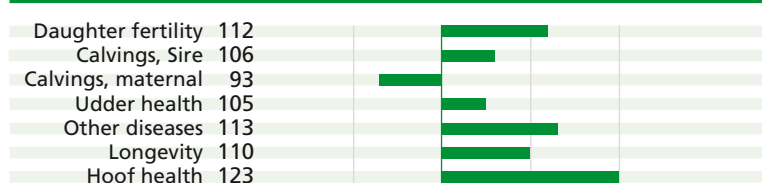


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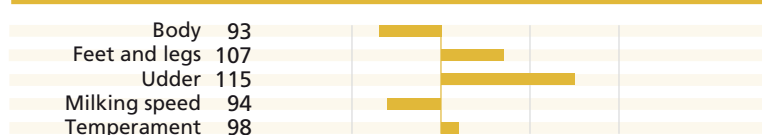
PRODUCTION TRAITS NO. OF DTRS 2039



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 807



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 +21

EBV 2005 +1453 kg Milk +22 kg Fat +57 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

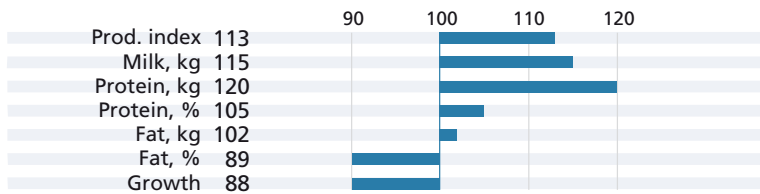


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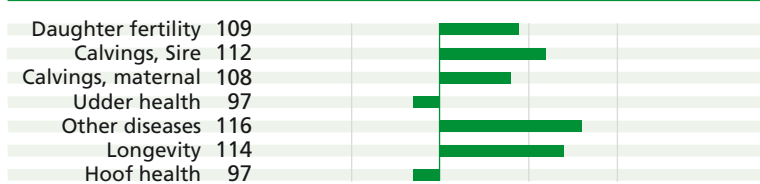


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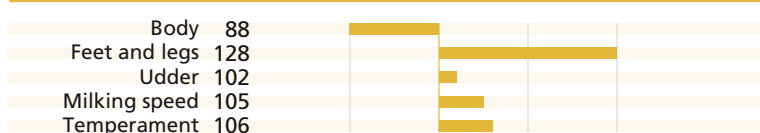
PRODUCTION TRAITS NO. OF DTRS 6325



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 1933



NTM +20



EBV 2005 +2816 kg Milk +51 kg Fat +80 kg Prot.



Longevity



Conformation



Total Merit Index

VH Cadiz



© Elly Geverink

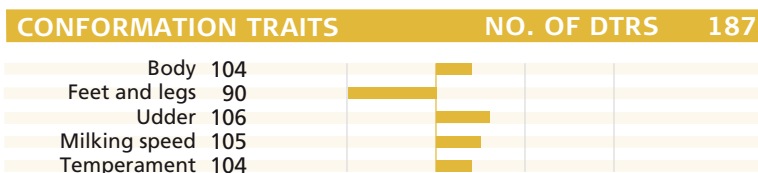
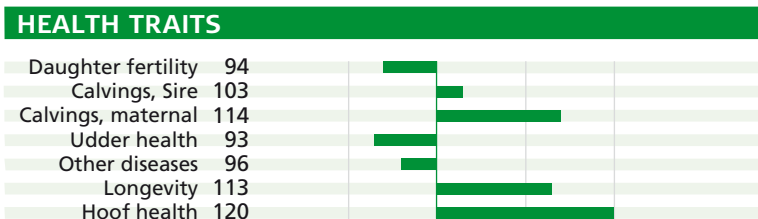
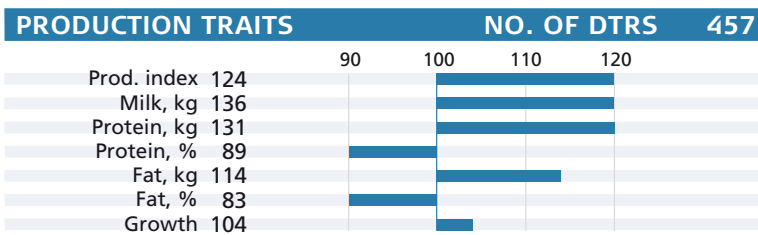


HOL 253356

S D Cole

MGS S Jordan 3

MGGS S Morty



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!

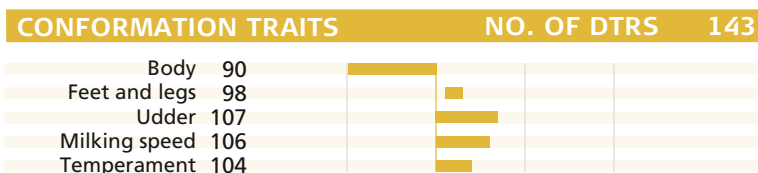
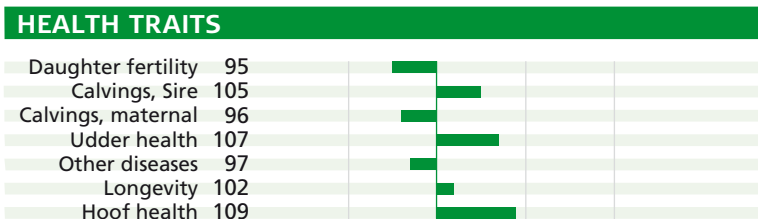
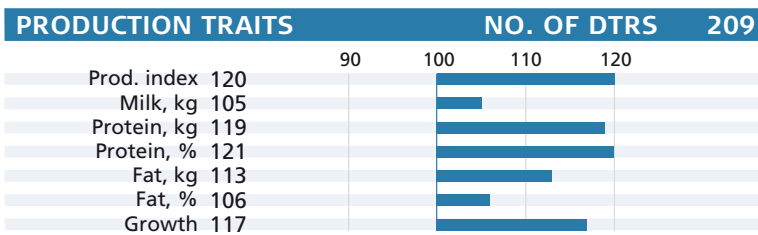
NTM +20

EBV 2005 +825 kg Milk +48 kg Fat +57 kg Prot.

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!

NTM +19

EBV 2005 +566 kg Milk +40 kg Fat +27 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

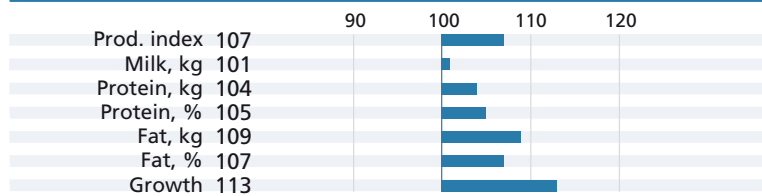


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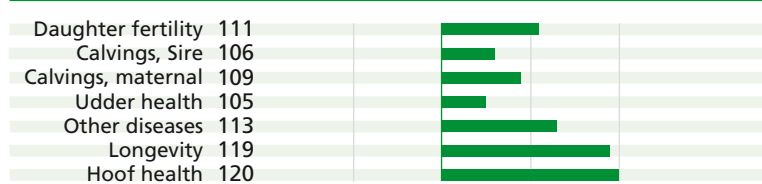


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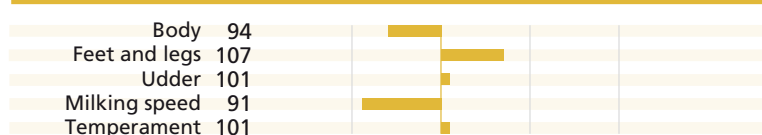
PRODUCTION TRAITS NO. OF DTRS 3932



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 1309



EBV 2005 +115 kg Milk +42 kg Fat +51 kg Prot.

NTM +18 VH Max



HOL 253419
S Mascol
MGS Oman Justi
MGS Luxemburg



Longevity

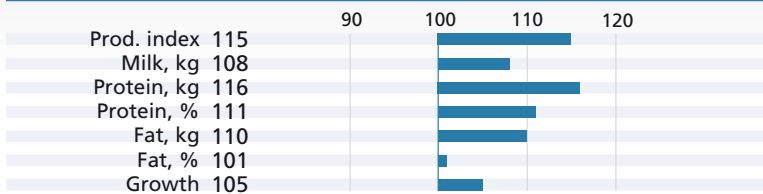


Udder Health

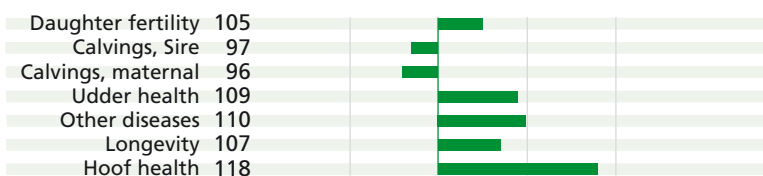


Conformation

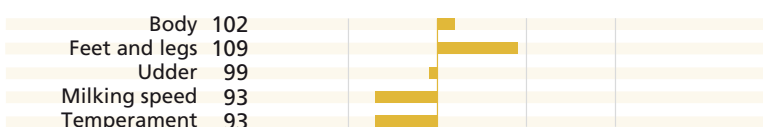
PRODUCTION TRAITS NO. OF DTRS 339



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 157



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.

EBV 2005 +586 kg Milk +41 kg Fat +44 kg Prot.

NTM +18 S Ross



HOL 48202
S Chassee
MGS T Funkis
MGS Häradsköp



Longevity

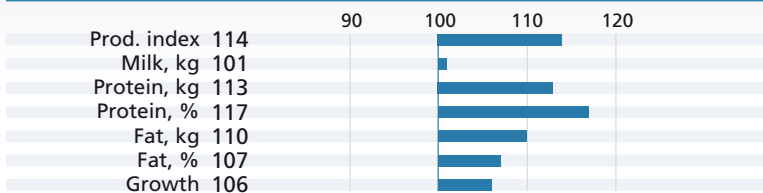


Daughter Fertility

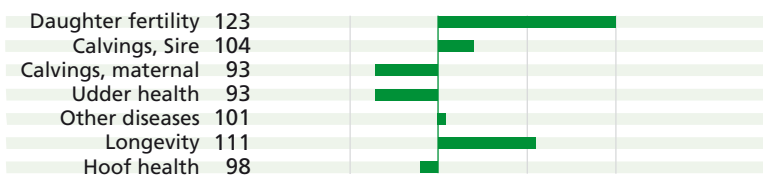


Components

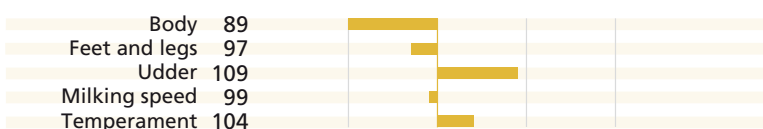
PRODUCTION TRAITS NO. OF DTRS 13563



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 5511



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.

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

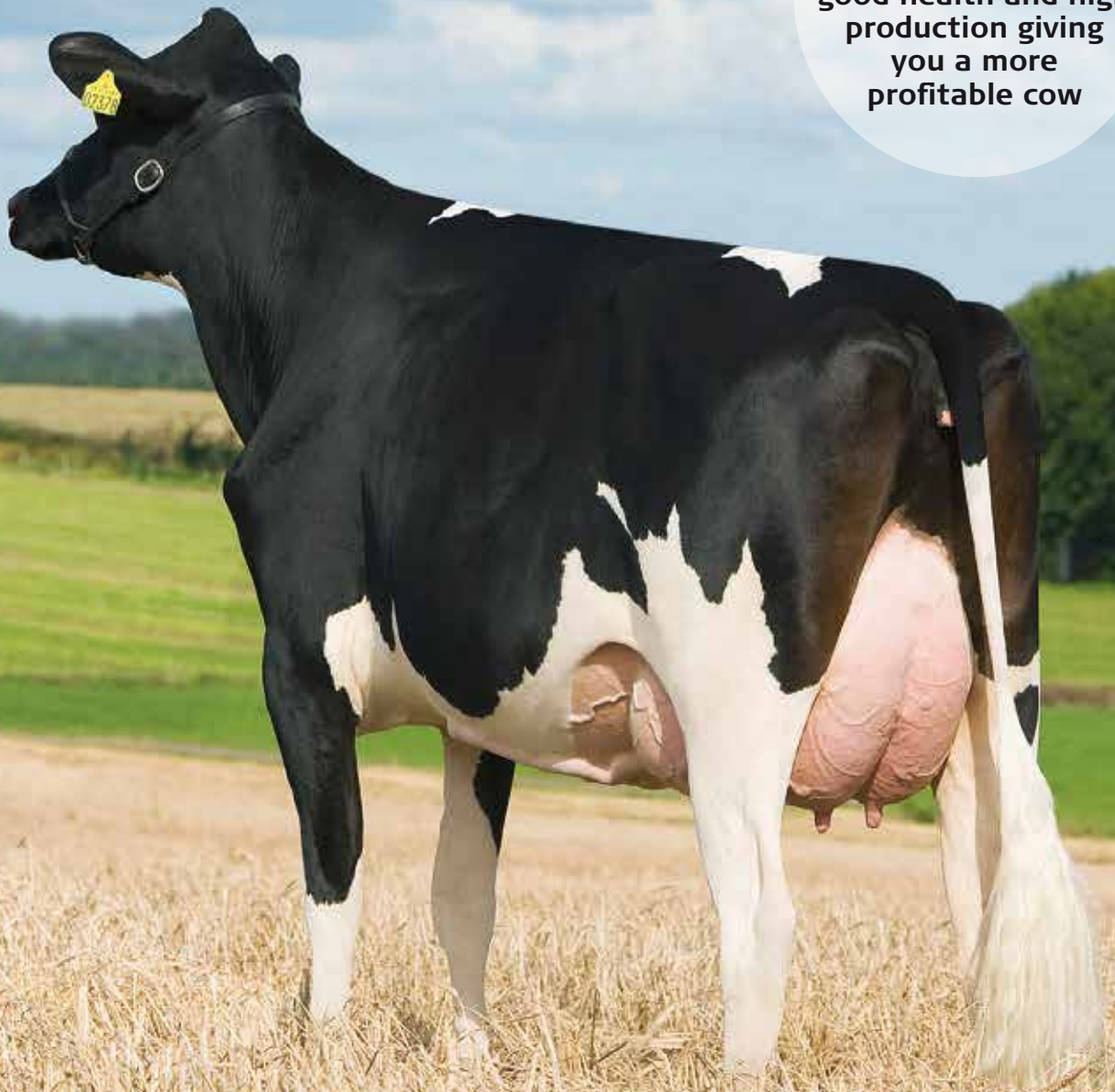


Photo: Ely Gevertink



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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!*

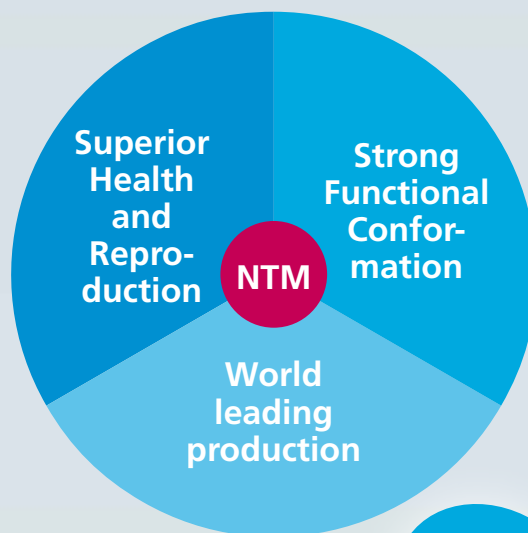


Photo Elly Geverink



Viking Top 10 – make your choice!

NTM	
VH Miracle	38
VH Mandel	37
VH Reynold	37
VH Boogie	36
VH Grafit	35
VH Miguel	35
VH Jaywalk	35
VH Mota	34
VH Gavin	33
VH Gregor	32

PRODUCTION	
VH Grafit	128
D Jul	128
VH Jaywalk	127
VH Gavin	127
VH Oneal P	124
VH Cadiz	124
VH Reynold	123
VH Booth	123
VH Goblin	122
D Mason	121

DAUGHTER FERTILITY	
D Grove	127
VH Black	125
S Ross	123
VH Albion	121
VH Redwood	119
VH Rudolf	117
VH Miracle	116
VH Blume	115
VH Oneal P	114
VH Boogie	114

CALVINGS SIRE	
VH Barkley	123
VH John	113
D Etoto	112
VH Albion	109
VH Redwood	109
VH Oneal P	109
VH Boogie	108
VH Miguel	108
VH Gregor	107
D Grove	106

UDDER HEALTH	
VH Mandel	120
VH Redwood	118
VH Miguel	118
VH John	114
VH Boogie	114
VH Miracle	114
VH Albion	113
VH Black	113
VH Reynold	113
VH Gregor	112

HOOF HEALTH	
VH Oyvind	127
VH Salomon	123
VH Albion	121
VH Reynold	120
VH Gregor	120
D Sol	120
VH Cadiz	120
VH Miguel	119
VH Max	118
VH Rudolf	115

LONGEVITY	
VH Miracle	132
VH Miguel	126
VH Gregor	125
VH Blume	123
VH Albion	122
VH Jaywalk	121
VH Reynold	120
VH John	120
D Sol	119
VH Boogie	119

UDDER	
VH Mandel	139
VH Redwood	135
VH Boogie	129
VH Mota	128
VH Miracle	127
VH Basten	125
VH Blume	123
VH Barkley	120
VH Jaywalk	116
VH Grafit	116

FEET & LEGS	
D Etoto	128
VH Barkley	121
VH Miguel	119
VH Booth	117
D Mason	116
VH Redwood	115
VH Gavin	115
VH Rudolf	113
VH Grafit	112
VH Boogie	111

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





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 Miracle



Alex Arkink

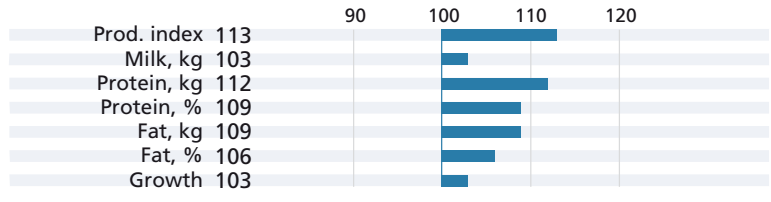
Grand Dam of VH Miracle



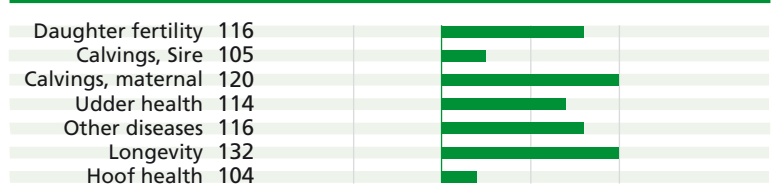
HOL 254418
S Massey
MGS Roumare
MGGs Var Calano
KappaCasein AB



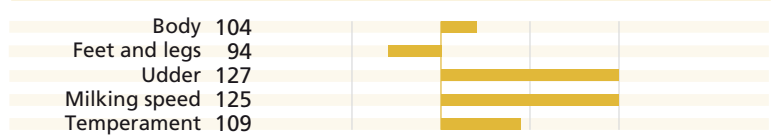
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



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 +37

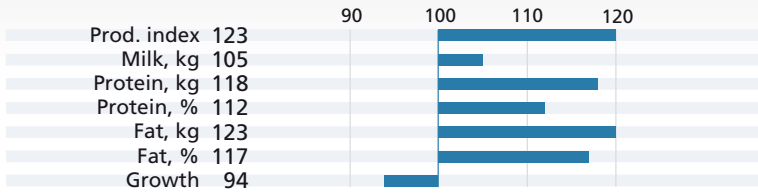
GENVIK[®] PLUS

VH Reynold

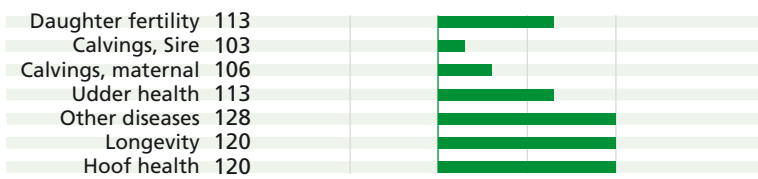


HOL 256184
S Ramado
MGS Man-O-Man
MGGS T Funkis

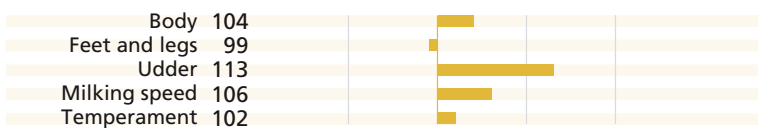
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



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 +37

GENVIK[®] PLUS

VH Mandel



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



Longevity

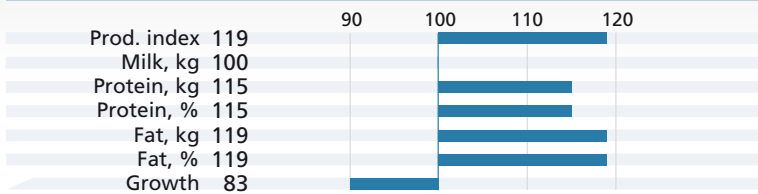


Udder Health

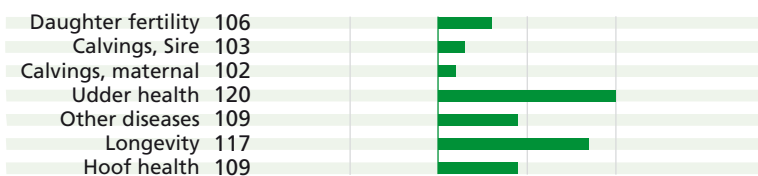


Conformation

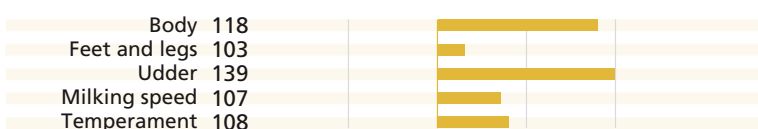
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



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 +36

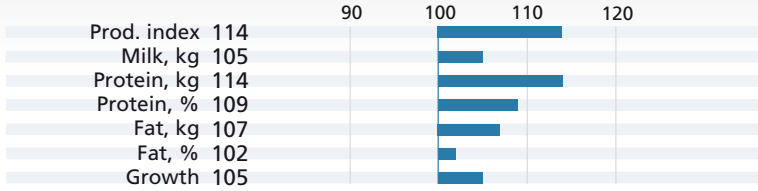
GENVIK[®] PLUS

VH Boogie

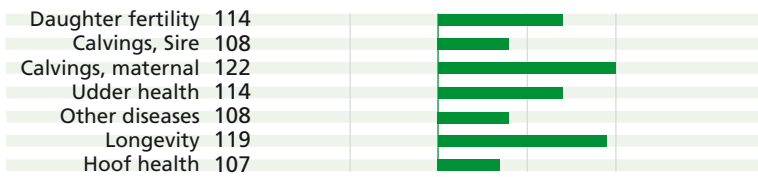


HOL 255962
S Bookem
MGS Man-O-Man
MGGS RGK Didrik

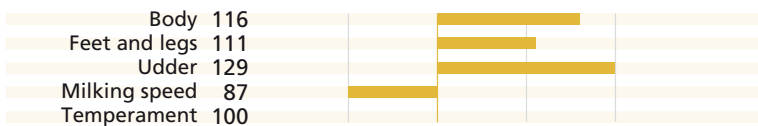
PRODUCTION TRAITS



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 +35

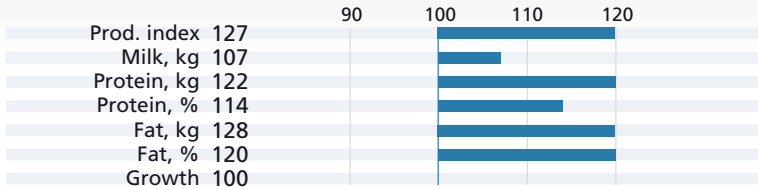
GENVIK[®] PLUS

VH Jaywalk

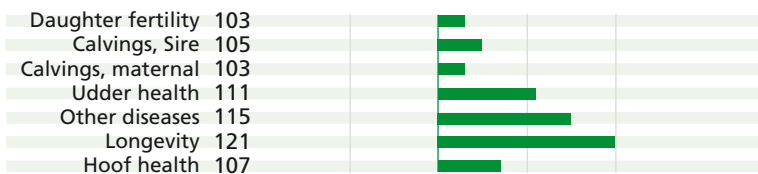


HOL 255788
S D Jul
MGS Oman Justi
MGGS Lancelot

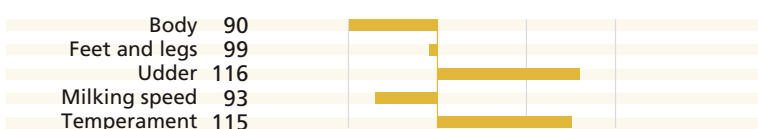
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



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 +35

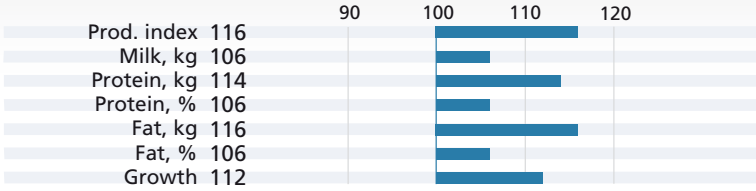
GENVIK[®] PLUS

VH Miguel

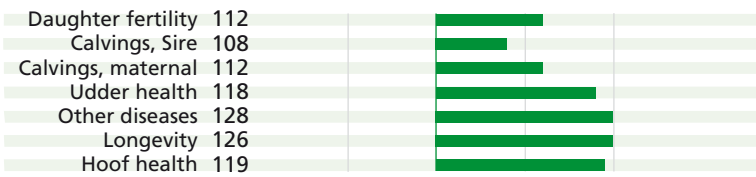


HOL 255750
S D Mason
MGS D Sol
MGGS V Ersgard

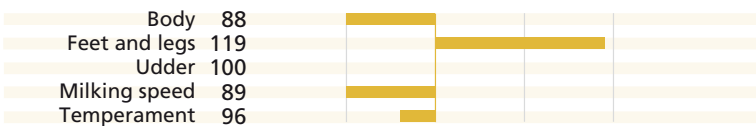
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



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 +34

GENVIK[®] PLUS

VH Mota



HOL 254182
S Man-O-Man
MGS Ramos
MGGS P Shottle



Hoof Health

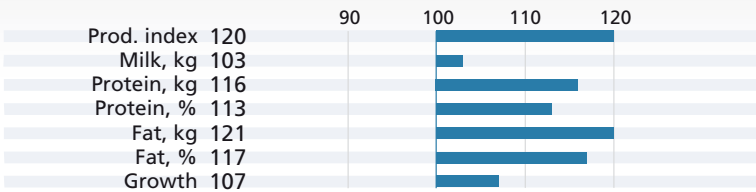


Udder Health

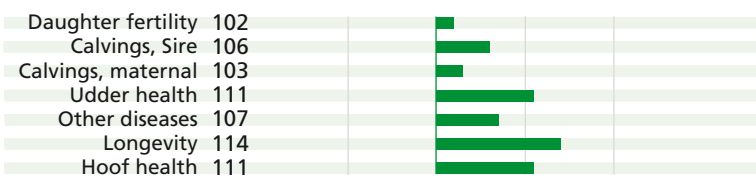


Conformation

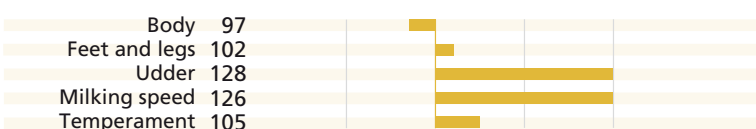
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



VH Mota was one of the first Man-O-Man genomic sons. If you are looking for solids, this is really a good bull for you. With VH Mota you get also cows with good health, both udder and hoof health indices show that. Also sexed semen available.

NTM +33 VH Gavin



Longevity



Daughter Fertility

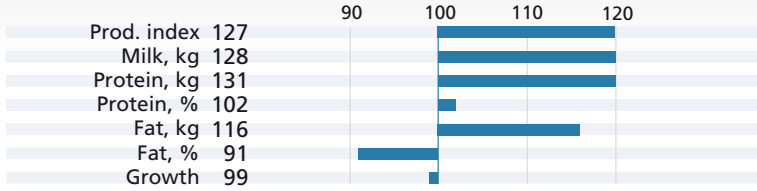


Conformation

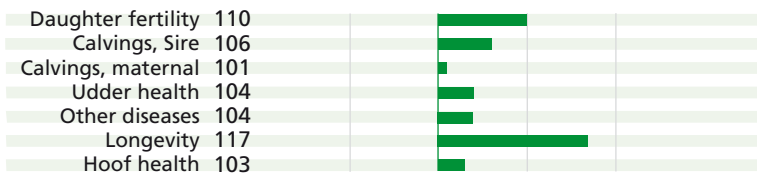


HOL 255183
S VH Grafit
MGS D Onside
MGGS Mascol

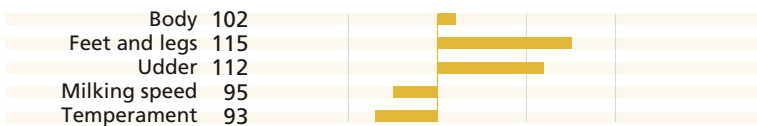
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



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 +32 VH Gregor



Longevity



Hoof Health

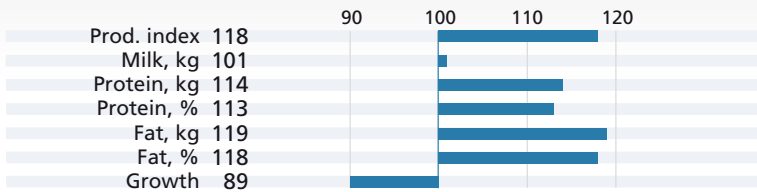


Easy Calvings

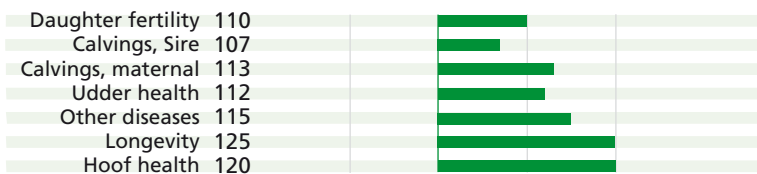


HOL 255190
S VH Grafit
MGS V Exces
MGGS V Bojer

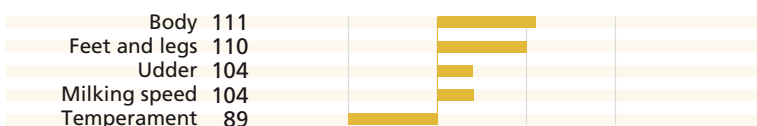
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



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 Goblin

GENVIK[®] PLUS



Longevity



Udder Health

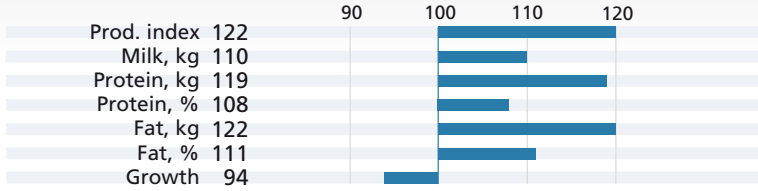


Conformation

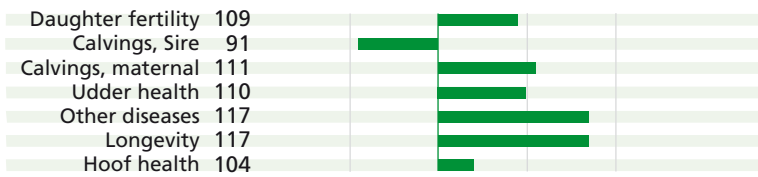


HOL 96307
S VH Grafit
MGS Fibrax
MGGS Buckeye

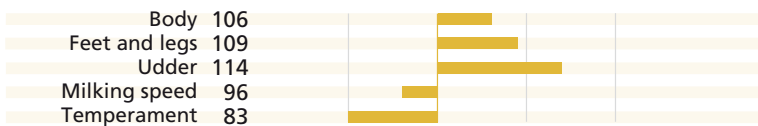
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



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 +31

VH Blume

GENVIK[®] PLUS



Longevity



Daughter Fertility

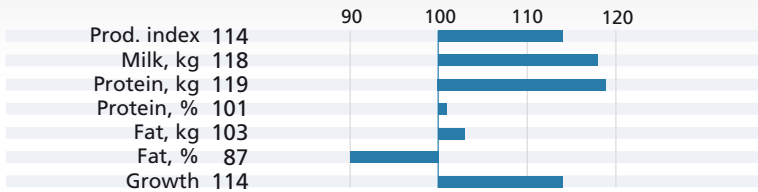


Conformation

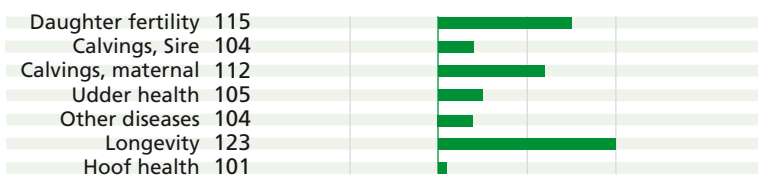


HOL 254934
S Bowser
MGS B Goldwyn
MGGS Oman Justi

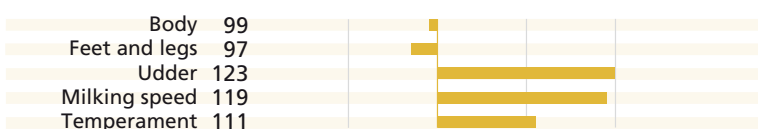
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



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 +30

GENVIK[®] PLUS

VH Barkley



HOL 255755
S Bookem
MGS Gibor
MGGs Sharky



Milk Production

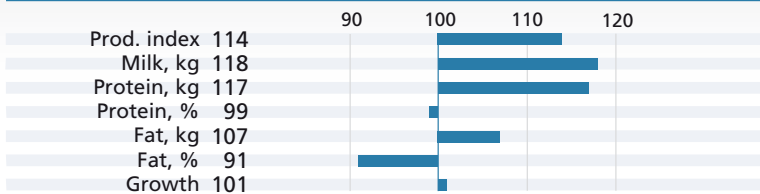


Easy Calvings

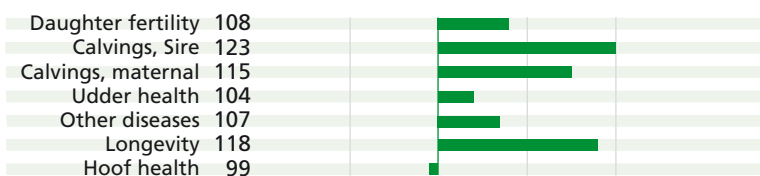


Conformation

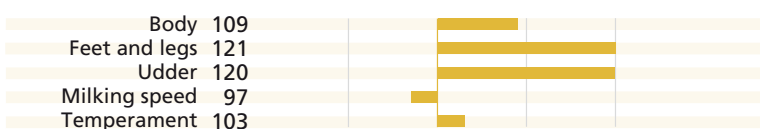
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



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 +30

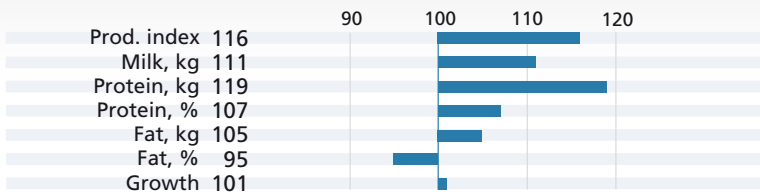
GENVIK[®] PLUS

VH John

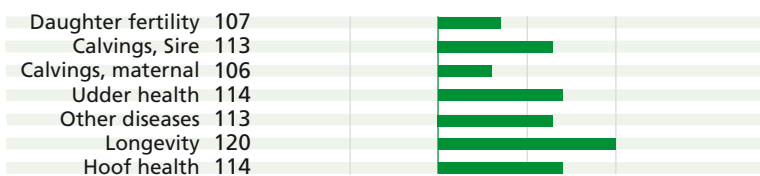


HOL 255754
S D Jul
MGS V GroovyBL
MGGs V Exces

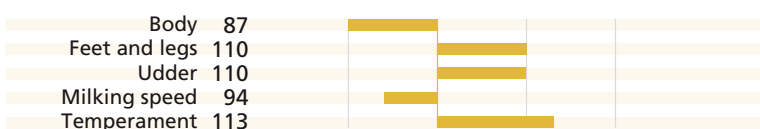
PRODUCTION TRAITS



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 +30

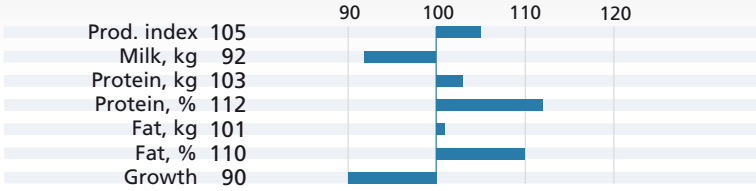
GENVIK[®] PLUS

VH Redwood

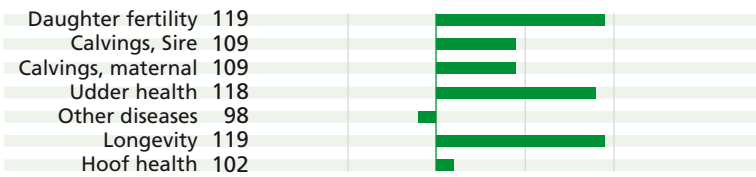


HOL 255624
S Router
MGS Fibrax
MGGS Oman Justi

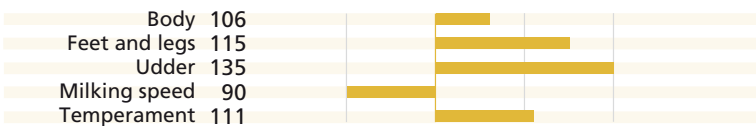
PRODUCTION TRAITS



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 +30

GENVIK[®] PLUS

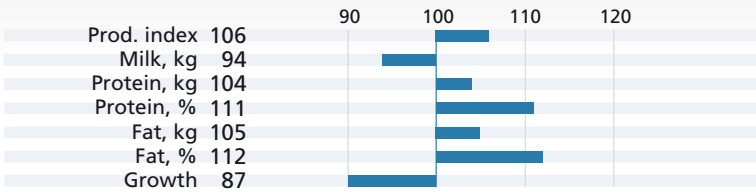
VH Albion

X-VIK

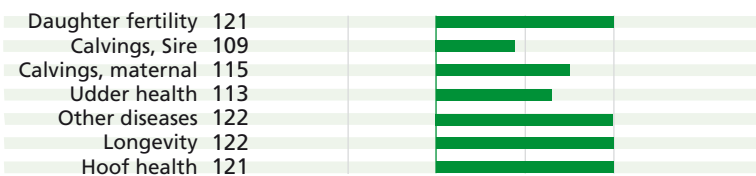


HOL 255412
S Ammus
MGS D Banker
MGGS V GroovyBL

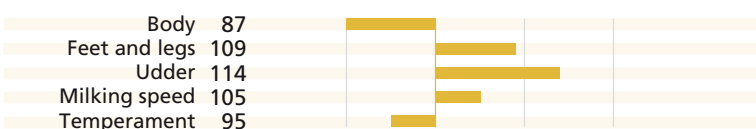
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



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 +29

GENVIK[®] PLUS

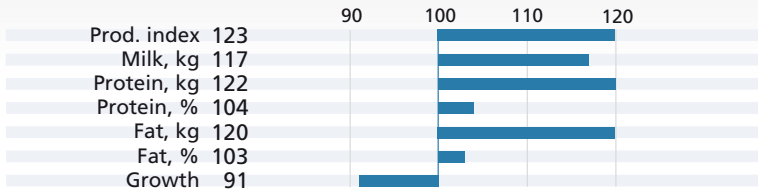
VH Booth

X-VIK[®]

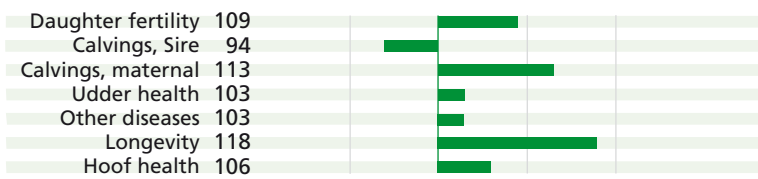


HOL 255761
S Beacon
MGS Planet
MGGS P Shottle

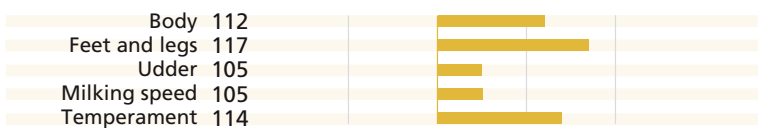
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



VH Booth is the best of Beacon genomic sons. The pedigree promises a lot of production and good functionality. Body, feet and legs and udders are all positive. Easy bull to use, if you are looking for longevity!

NTM +27

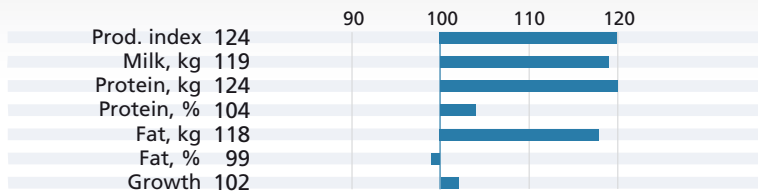
GENVIK[®] PLUS

VH Oneal P

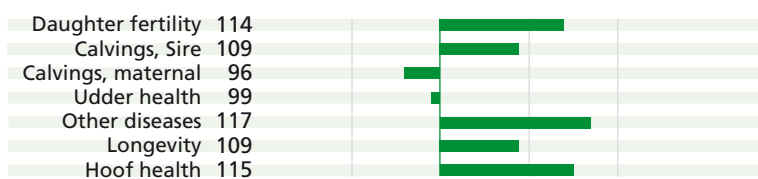


HOL 255423
S VH Ove P
MGS Stäme-ET
MGGS V Exces

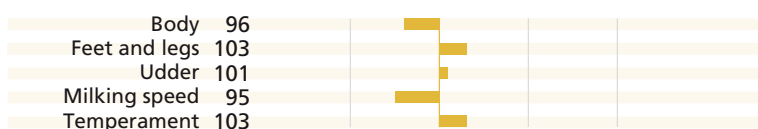
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



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.

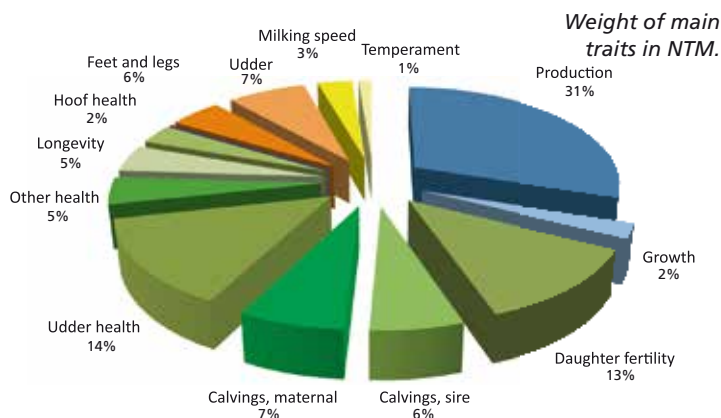
Understand the benefit from high NTM – increased profit!

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?

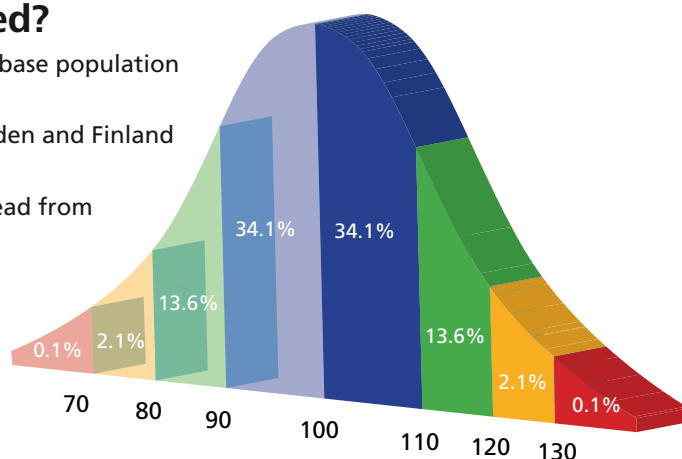
EBVs of all animals are adjusted in such a way that animals in the base population have an average index of 100.

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.

1

NTM +25

EBV 2005 +1629 kg Milk +70 kg Fat +59 kg Prot.

5

Longevity

Milk Production

Udder Health

D Mason

VIKING HOLSTEIN

HOL 251114
S Mascol
MGS Oman Justi
MGS Lukas
KappaCasein AB

PRODUCTION TRAITS	NO. OF DTRS	434
Prod. index	121	
Milk, kg	117	
Protein, kg	120	
Protein, %	101	
Fat, kg	121	
Fat, %	102	
Growth	103	

HEALTH TRAITS	NO. OF DTRS	434
Daughter fertility	97	
Calvings, Sire	91	
Calvings, maternal	108	
Udder health	112	
Other diseases	114	
Longevity	114	
Hoof health	109	

CONFORMATION TRAITS	NO. OF DTRS	237
Body	87	
Feet and legs	116	
Udder	100	
Milking speed	103	
Temperament	95	

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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