

Sire Directory 2014

Online edition – September



VIKINGRED[®]

Find your local distributor at www.vikinggenetics.com/distributors



Elly Geverink

Adding value every day

Our three impressive breeds, Finnish Ayrshire, Swedish Red and Danish Red share the same selection program and breeding goal. Together with a high participation in milk recording and unique registrations for health and fertility in the worlds most complete high quality data base it provides excellent opportunity for efficient selection.

VikingGenetics tests 200 bull in total every year. Giving you the opportunity to enjoy the results of three strong red breeds and one excellent breeding program!

Breed statistics VikingRed

No. of cows	290,405
Milk, kg	8674
Fat, kg	374
Fat, %	4.31
Protein, kg	304
Protein, %	3.50
Fat + Protein, kg	678



NTM +29

>12,5%
Holstein

EBV 2005 +1365 kg Milk +104 kg Fat +72 kg Prot.



Milk
Production



Components



Conformation

VR Dalton



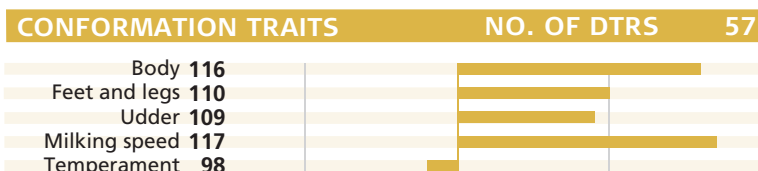
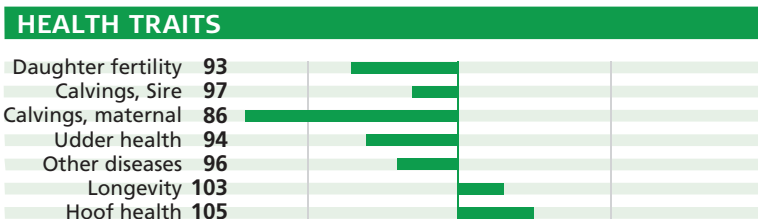
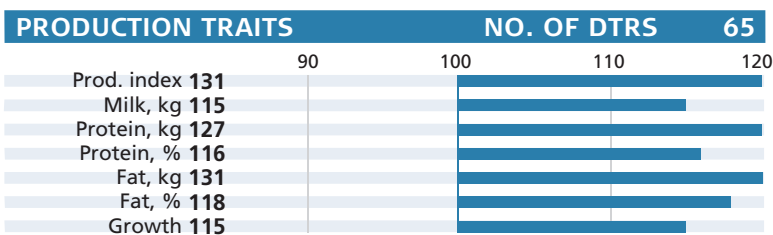
© Elly Geverink



RDM 36877
S R Degn
MGS R Admiral
MGGS Ferdi



© Elly Geverink



VR Dalton (R Degn x R Admiral) is a new top proven bull with high NTM and extreme production index. The daughters have nice, deep bodies, strong feet & legs and excellent rear udders. Look that milking speed: good choice for robotic milking!

NTM +25

EBV 2005 +864 kg Milk +49 kg Fat +32 kg Prot.



Longevity



Daughter Fertility



Easy Calvings

VR Gobel



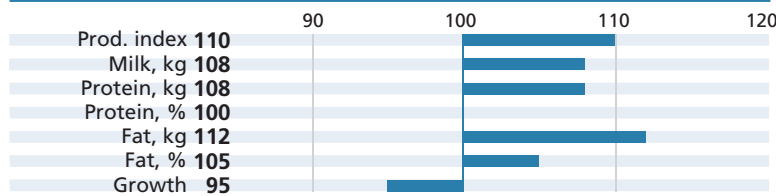
VR Gobel is an extreme sire in female fertility with index 126, all his birth and calving figures are positive as well. He is one of the best feet and leg improvers at the moment.



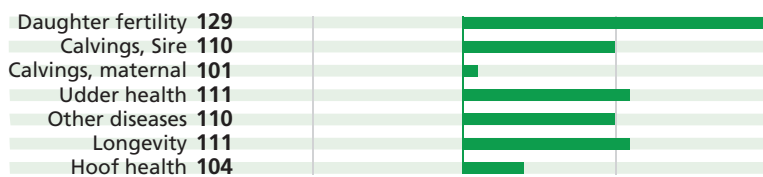
SRB 92983
S Gunnarstorp
MGS S Major
MGS Peterslund



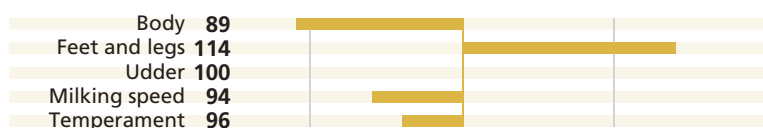
PRODUCTION TRAITS NO. OF DTRS 181



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 109



NTM +24

>12.5%
Holstein

EBV 2005

+139 kg Milk

+62 kg Fat

+34 kg Prot.



Udder Health



Components



Conformation

R Harvard



R Harvard is out of a VEST Sum dam that milked 5 lactations with a total yield of 58,000 kg of milk with 4.7 % fat and 3.9% protein. This best Ascona son is at the moment holding the NTM top position together with R Cigar.

© Elly Geverink



VIKING RED

RDM 36560

S R Ascona

MGS VEST Sum

MGGs Emory



PRODUCTION TRAITS

NO. OF DTRS 146

	90	100	110	120
Prod. index	115			
Milk, kg	98			
Protein, kg	110			
Protein, %	121			
Fat, kg	117			
Fat, %	124			
Growth	93			

HEALTH TRAITS

Daughter fertility	100			
Calvings, Sire	103			
Calvings, maternal	102			
Udder health	107			
Other diseases	108			
Longevity	101			
Hoof health	95			

CONFORMATION TRAITS

NO. OF DTRS 103

Body	105			
Feet and legs	104			
Udder	115			
Milking speed	106			
Temperament	108			

NTM +23

>12,5%
Holstein

X₁ X-VIK[®]



Longevity



Easy Calvings



Conformation

EBV 2005

+808 kg Milk

+77 kg Fat

+37 kg Prot.

VR Cigar



© Elly Geverink

The R Alfa dam who delivered VR Cigar was flushed three times which resulted in three more sons sold to VikingGenetics. She milked for 4.5 years with a total yield of 50,000 kg of milk. VR Cigar has been one of the most popular red sires globally. He was already used as GenVikPLUS sire.



RDM 36678
S R Cirkel
MGS R Alfa
MGGS FYN Cent



© Elly Geverink



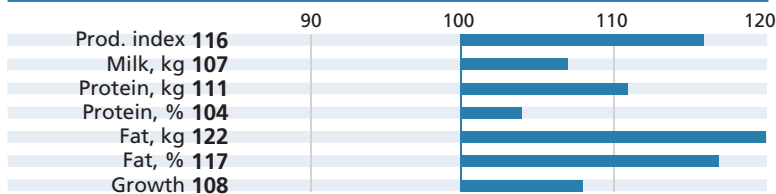
© Elly Geverink



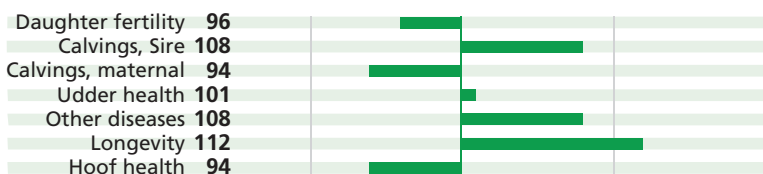
© Elly Geverink

PRODUCTION TRAITS

NO. OF DTRS 227

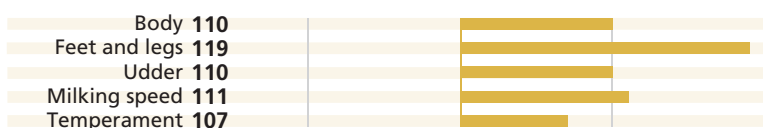


HEALTH TRAITS



CONFORMATION TRAITS

NO. OF DTRS 142



NTM +23



EBV 2005 +1039 kg Milk +36 kg Fat +34 kg Prot.



Daughter Fertility



Easy Calvings



Udder Health

R Gold



R Gold is an excellent combination of udder health and fertility. He is a good choice for your heifers: calvings are easy but daughters have size enough. If you are looking for feet and legs: remember R Gold!

© Elly Geverink



RDM 36451
S Peterslund
MGS VEST Top
MGGS VEST Safir



© Elly Geverink



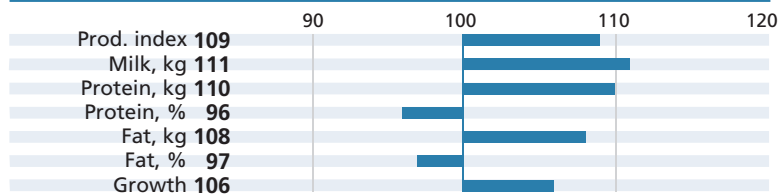
© Elly Geverink



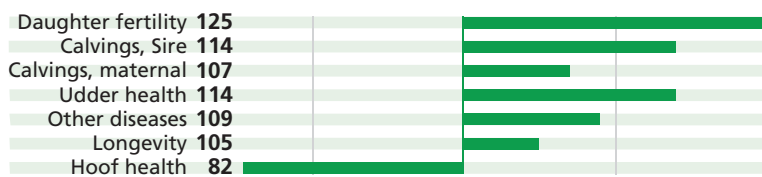
© Elly Geverink

PRODUCTION TRAITS

NO. OF DTRS 802

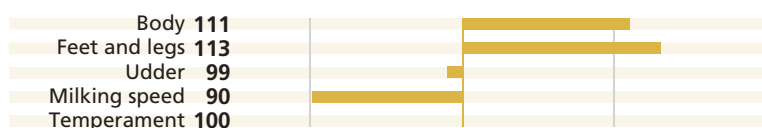


HEALTH TRAITS



CONFORMATION TRAITS

NO. OF DTRS 366



NTM +22

EBV 2005 +285 kg Milk +25 kg Fat +19 kg Prot.



Easy Calvings



Milk Production



Conformation

R Haslev



© Elly Geverink



VIKING RED

RDM 36558
S Orraryd
MGS SYD Garant
MGS Torpane

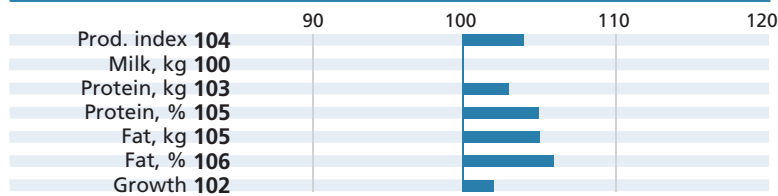


© Elly Geverink

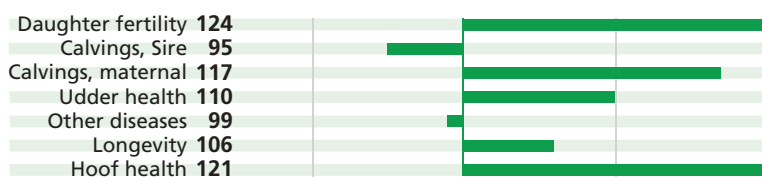


Elly Geverink

PRODUCTION TRAITS NO. OF DTRS 1126



HEALTH TRAITS



CONFORMATION TRAITS NO. OF DTRS 410



The Haslev daughters excel in fertility and hoof health. In the parlor and by AMS, the fast milking speed and easy temperament are appreciated by farmers. Haslev breeds tall and angular daughters with excellent feet and legs and udder conformation.

NTM +21



EBV 2005 +696 kg Milk +26 kg Fat +27 kg Prot.



Longevity



Daughter Fertility



Easy Calvings

Pell-Pers



Pell-Pers having a very special pedigree, the only son of Flarkbäcken, is a natural choice for the breeder who appreciates trouble-free cows. The dam 82 Lycka comes from a small farm and the cow family Lycka is almost the only one in the herd. 82 Lycka was scored after six calves with 85 points.

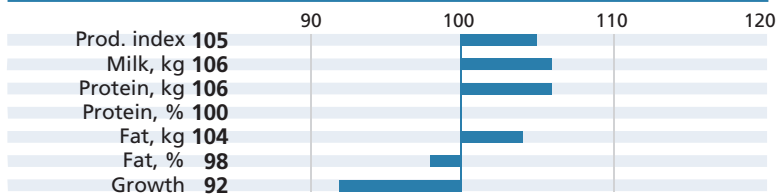


SRB 92488
S Flarkbäcken
MGS Botans
MGGS Backgård

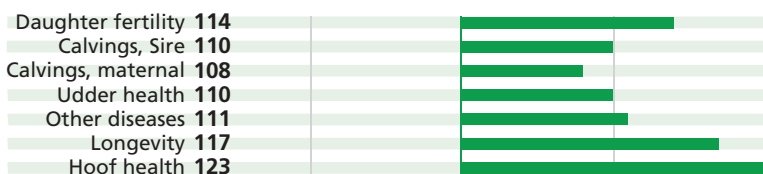


PRODUCTION TRAITS

NO. OF DTRS 202

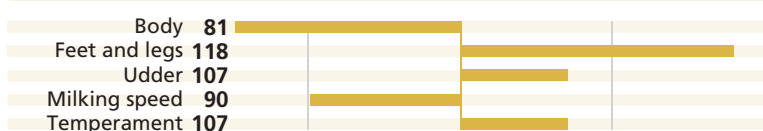


HEALTH TRAITS



CONFORMATION TRAITS

NO. OF DTRS 83



NTM +21

EBV 2005 +156 kg Milk +54 kg Fat +30 kg Prot.



Longevity



Daughter Fertility

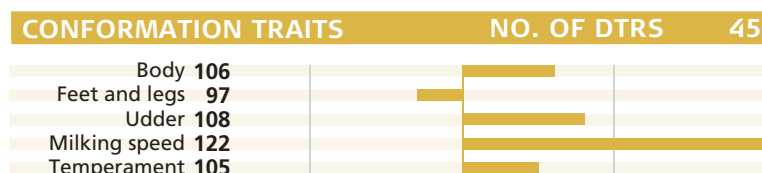
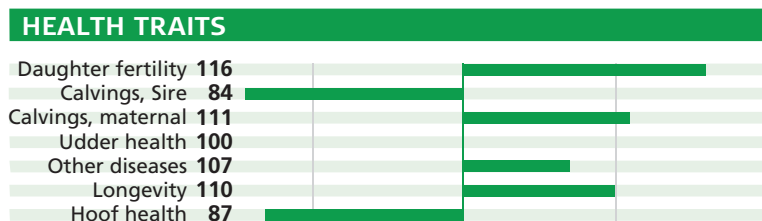
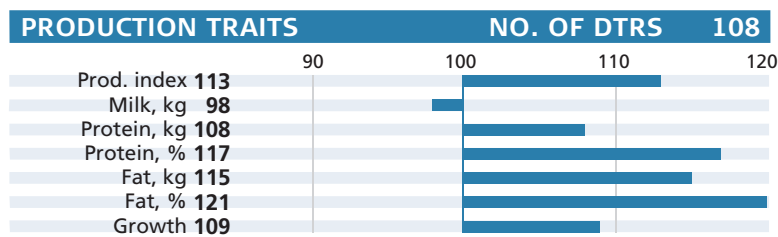


Components

VR April



SRB 99114
S R Alfa
MGS Botans
MGS Peterslund



VR April is R Alfa daughter and he is really a component king! The daughters have excellent fertility and good udders. Ideal also for robotic milking: daughters have very good milkability.

NTM +19



EBV 2005

+943 kg Milk

+58 kg Fat

+58 kg Prot.



Easy Calvings



Milk Production



Total Merit Index

G Edbo



Elisabeth

G Edbo is back on podium with his second crop daughters. He has the same fantastic Abru cow as dam as 2104 Gunnarstorp 1131 Eda. According to the owners Eda was an incredibly kind cow. She had eight calves and milked more than 84,000 kg ECM (76,805 kg milk and 4.6% fat, 3.7 % protein).



VIKING RED

SRB 92263

S Botans

MGS Abru

MGGS Hulan



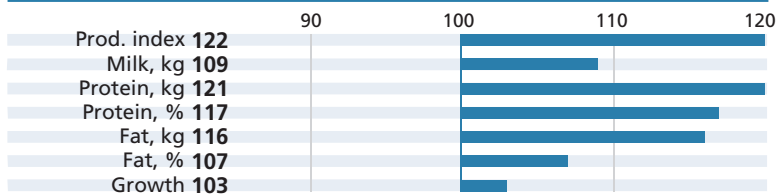
Elisabeth



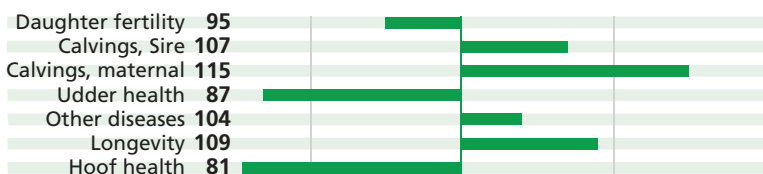
Elisabeth

PRODUCTION TRAITS

NO. OF DTRS 6085

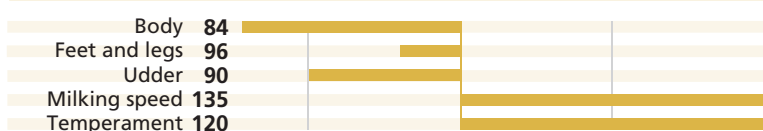


HEALTH TRAITS



CONFORMATION TRAITS

NO. OF DTRS 2670



NTM +19

>12,5%
Holstein

X_y X-VIK[®]

EBV 2005 +443 kg Milk +54 kg Fat +33 kg Prot.



Longevity



Udder Health

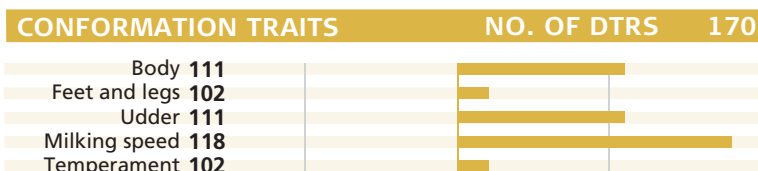
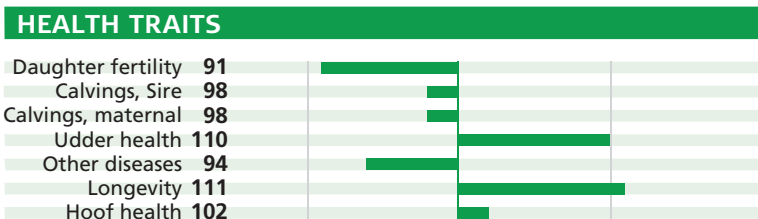
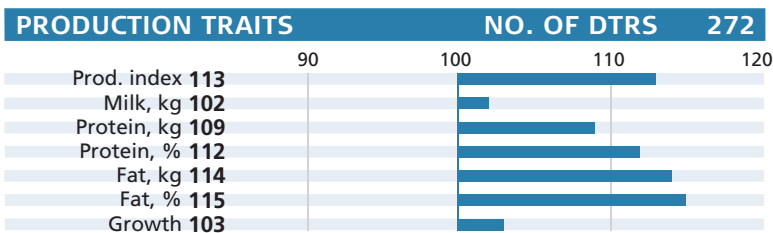


Components

VR Balfa



RDM 36825
S R Bangkok
MGS R Alfa
MGGS VEST Bæk



VR Balfa was brought into VikingGenetics because of his stack of sires. Balfa's dam was classified VG 88, with EX 92 classification for mammary. The late R Bangkok-son was bred in a farm where no bulls had been sold before, but due to genomic selection VR Balfa was bought.

NTM +19

>12,5%
Holstein

X_y X-VIK[®]



Longevity



Daughter
Fertility



Components

EBV 2005 +1039 kg Milk +36 kg Fat +34 kg Prot.

VR Bergs



© Elly Geverink



VIKING
RED[®]

RDM 36880

S O Brolin

MGS R Ascona

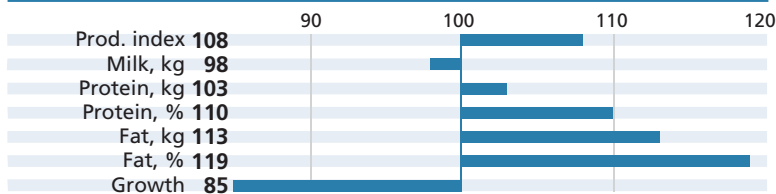
MGGs R Display



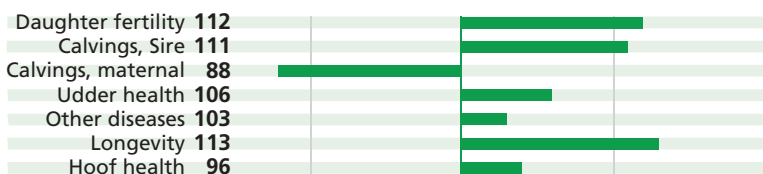
© Elly Geverink

PRODUCTION TRAITS

NO. OF DTRS 421



HEALTH TRAITS



CONFORMATION TRAITS

NO. OF DTRS 210



VR Berg (O Brolin x R Ascona) is a Danish bull. He is an easy calving bull so good choice for heifers. Daughters are very functional with good fertility, udder health, hoof health, temperament and milking speed. They have also nice conformation. Look those udder attachments!

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

NTM +18 V Föske



Longevity



Daughter Fertility



Milk Production

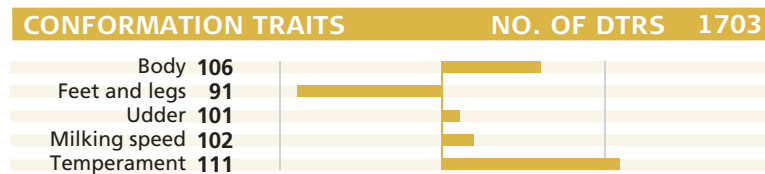
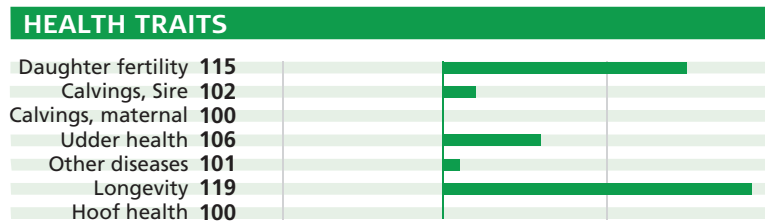
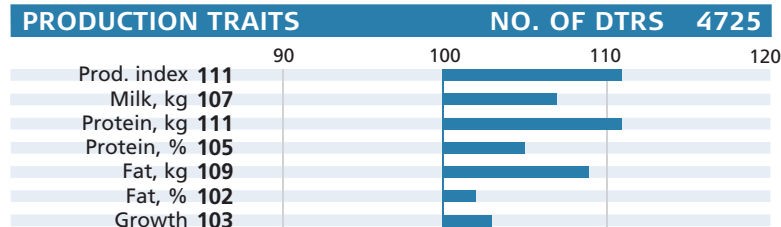


SRB 92483

S Miqur

MGS Gårdö

MGGS Tunnus



V Föske inherits two traits that are not easy to combine on high level: production and fertility. This sire having a different pedigree: Miqur x Gårdö comes from Viken herd. The dam, 210 Lilja, was bought to Viken as a heifer. She was flushed several times but V Föske is Lilja's own calf.

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

NTM +18 KappaCasein: AA

Gunnarstorp



SRB 92104

S Kelli

MGS Abru

MGGS Hulan



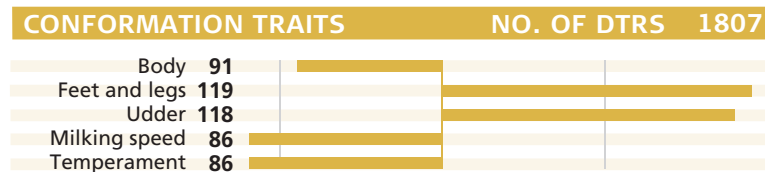
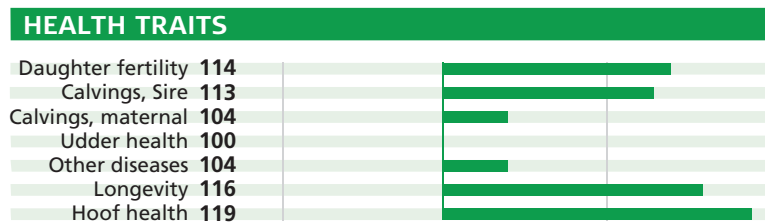
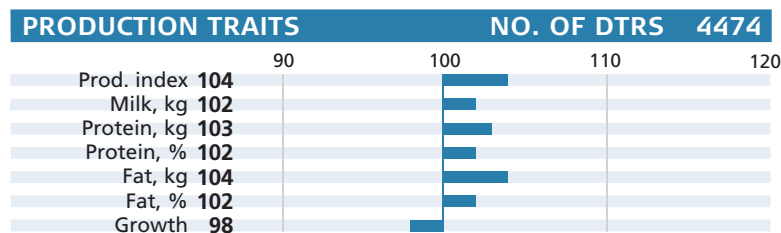
Longevity



Hoof Health



Conformation



Gunnarstorp has over 3,000 milking daughters in his proof with great farmer satisfaction. He is a half brother of G Edbo coming from the same dam.

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

NTM +17 KappaCasein: AA

VR Leroy



Hoof Health



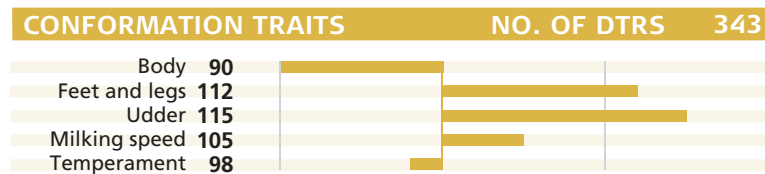
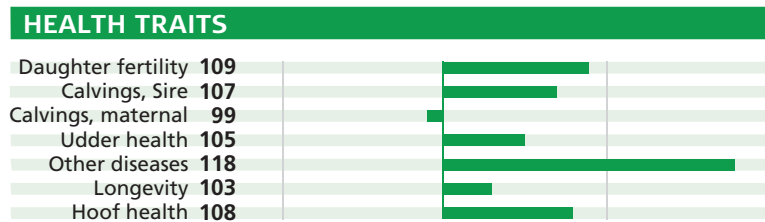
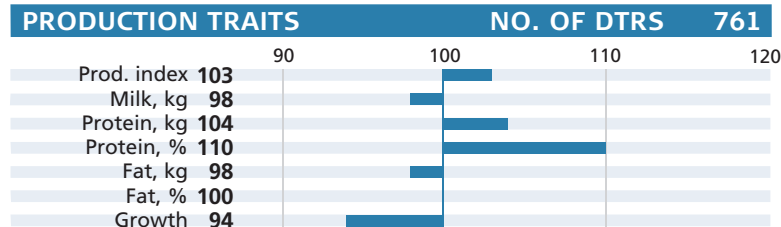
Components



Conformation



SRB 92912
S Långbo
MGS Peterslund
MGGS Myhrer



VR Leroy is the only son of Långbo in large scale use. He is a bull with very good functional traits. High indices of fertility, udder health, other diseases and hoof health really mean good longevity.

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

NTM +17

P. Yllyke



FAY 44620
S N.Ooppium
MGS K.Kelli
MGGS K.Istoh



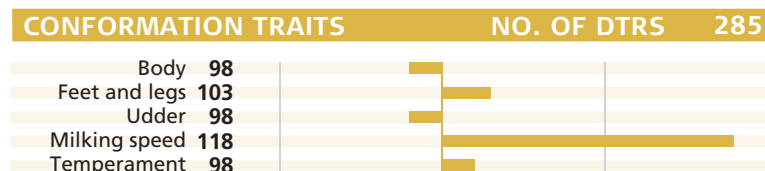
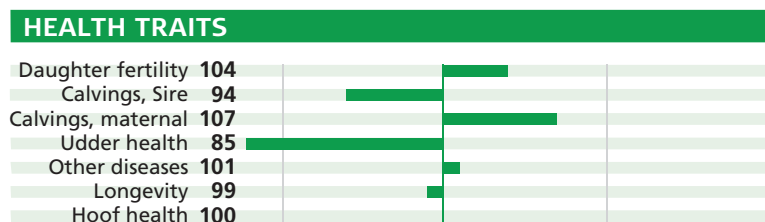
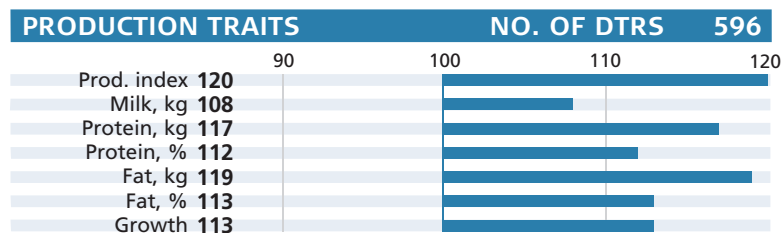
Longevity



Milk Production



Components



Yllyke is a son of Ooppium. In production traits this bull is one of the best. Lots of milk with excellent components provide you good daughters. If you need faster daughters in your milking parlor, Yllyke is your solution, the milking speed index is 124!

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

NTM +16 KappaCasein: AE

S.Turandot



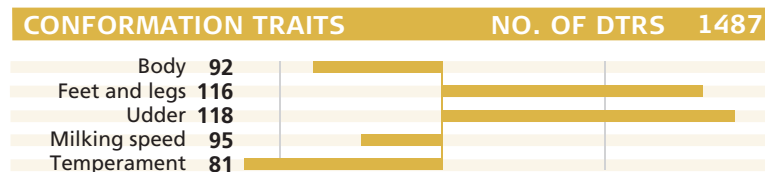
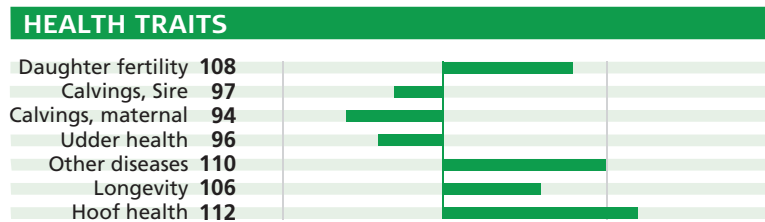
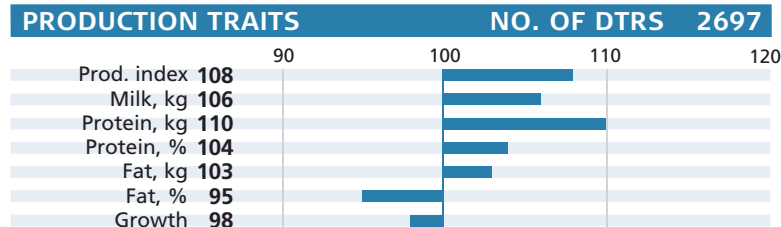
FAY 43576
S L-K.Luiri
MGS V.Akilles
MGS M.Uklaus



Daughter Fertility



Conformation



Turandot is the only Luiri son in large use, so he has an easy pedigree to use. Luiri is very good in production traits, both with udder conformation and feet and legs, but the daughters have also good milk production.

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

NTM +15 KappaCasein: AA

Nora Prästgård



SRB 92518
S Lien
MGS Botans
MGS Ekholm



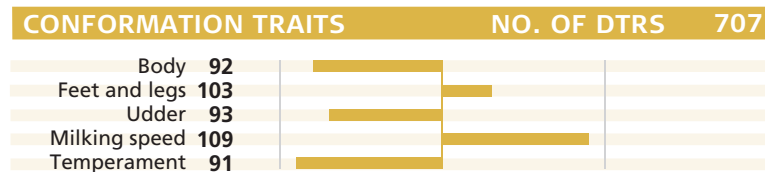
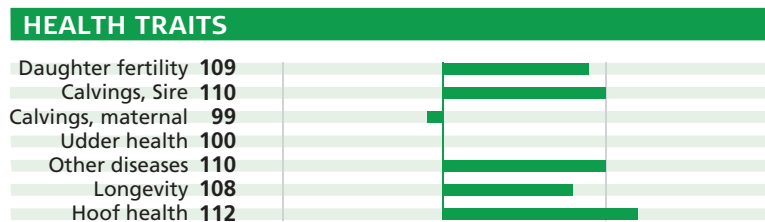
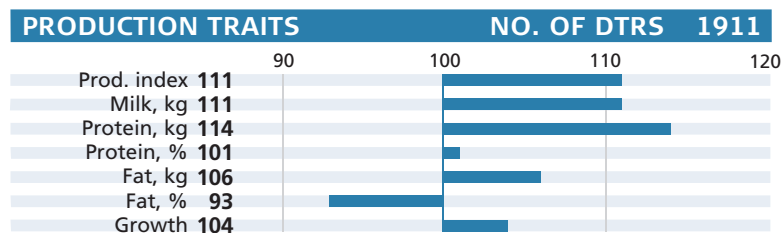
Longevity



Hoof Health



Milk Production



Nora Prästgård is a carrier of polled gene coming from his Norwegian sire Lien. He is a calving ease sire with good health traits.

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

NTM +15 R. Ypry



FAY 44881
S N.Ooppium
MGS A.Lööperi
MGGS Flaka



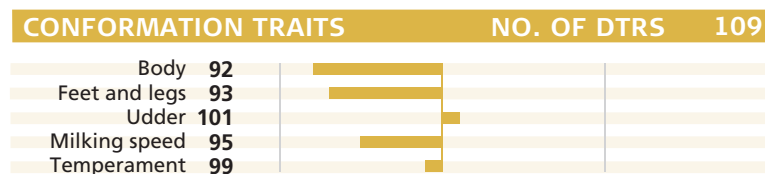
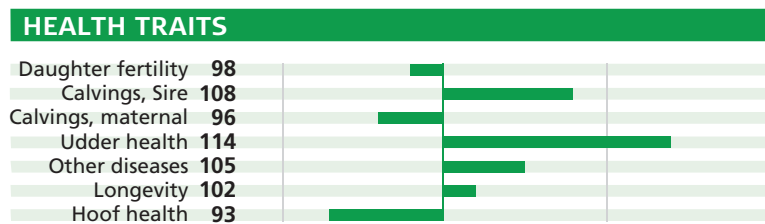
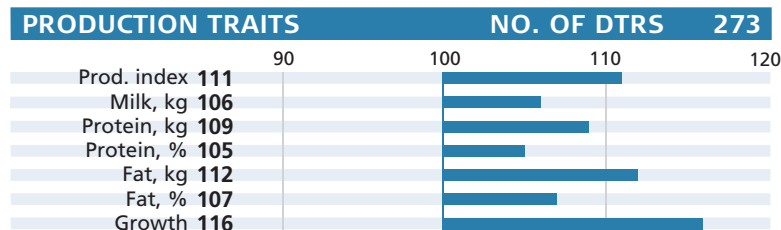
Longevity



Milk Production



Udder Health



Ypry is sired by Ooppium, so it is easy to find him as a very high component bull. The daughters are smaller than average but they are also born very easily so Ypry is good for heifers. Problems with udder health? Select Ypry!

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

NTM +13 KappaCasein: AA R. Facet



RDM 36324
S K Jerry
MGS Vættergård
MGGS ØJY Ladby



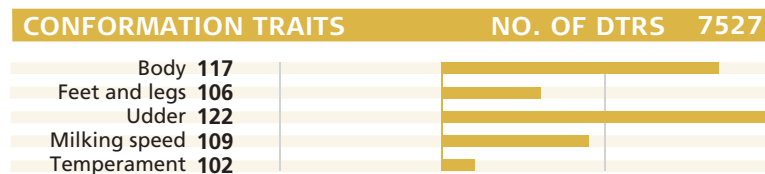
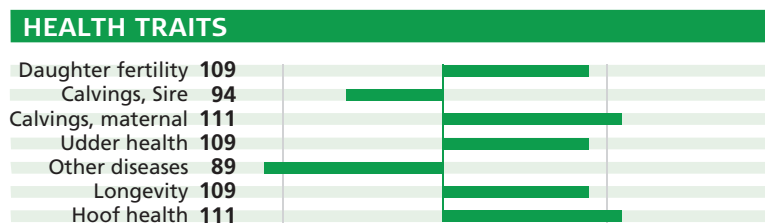
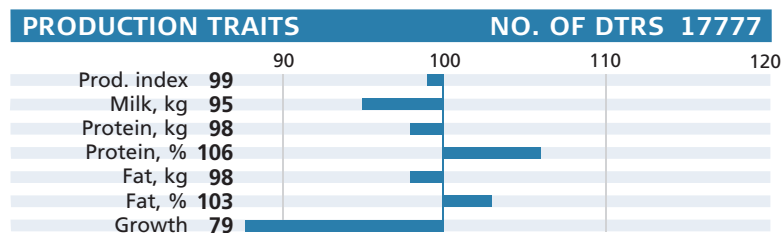
Longevity



Daughter Fertility



Hoof Health



The dam of R Facet after the Swedish bull Vættergård was a big cow with 91 in overall classification. She has given three more bulls to VikingGenetics. The dam of the Vættergård cow is also the dam of R Degn, a FYN Aks son who was on the mating plans in Denmark.

Viking Top 10 – make your choice!

NTM	
VR Crone	36
VR Babylon	35
VR Porter	33
VR Vimpula	32
VR Dalton	29
VR Flame	28
VR Hammer	27
VR Ultimo	27
VR Borsse	25
VR Fergus	25

PRODUCTION	
VR Dalton	131
VR Babylon	125
VR Vimpula	125
G Edbo	122
P. Yllyke	120
VR Crone	119
VR Porter	118
VR Flame	118
VR Vauhti ET	117
VR Cigar	116

DAUGHTER FERTILITY	
VR Gobel	129
R Gold	125
R Haslev	124
VR Ultimo	117
VR April	116
V Föske	115
VR Flame	114
Pell-Pers	114
Gunnarstorp	114
VR Berg	112

CALVINGS SIRE	
VR Hammer	120
R Gold	114
Gunnarstorp	113
VR Berg	111
VR Nasta	111
VR Gobel	110
Pell-Pers	110
Nora Prästgård	110
VR Nero ET	108
R. Ypry	108

UDDER HEALTH	
VR Crone	116
VR Porter	115
R Gold	114
R. Ypry	114
VR Nasta	111
VR Gobel	111
VR Hammer	110
Pell-Pers	110
VR Balfa	110
R Haslev	110

HOOF HEALTH	
Pell-Pers	123
R Haslev	121
Gunnarstorp	119
VR Porter	117
Nora Prästgård	112
S.Turandot	112
R Facet	111
VR Leroy	108
VR Borsse	106
VR Flame	106

LONGEVITY	
VR Porter	123
VR Borsse	122
V Föske	119
VR Babylon	118
Pell-Pers	117
VR Flame	117
VR Fergus	117
Gunnarstorp	116
VR Crone	116
VR Ultimo	113

UDDER	
VR Crone	127
R Facet	122
Gunnarstorp	118
S.Turandot	118
VR Ultimo	117
VR Babylon	116
VR Leroy	115
VR Vauhti ET	115
R Harvard	115
VR Porter	114

FEET & LEGS	
Gunnarstorp	119
VR Cigar	119
Pell-Pers	118
VR Crone	116
S.Turandot	116
VR Borsse	116
VR Gobel	114
R Haslev	113
VR Vimpula	113
R Gold	113

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





Elly Geverink

Fast track your herd with Genomic Reds!

VikingGenetics has the strongest **Red Genomic Programme** in the world and is the original first hand choice when it comes to profitable herd improvement.

The Genomic Sires from Viking are the next generation, and offers you top quality genetics. All bulls entering the program are preselected based 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.



www.vikinggenetics.com

NTM +36

VR Crone

GENVIK[®] PLUS



Milk Production



Components

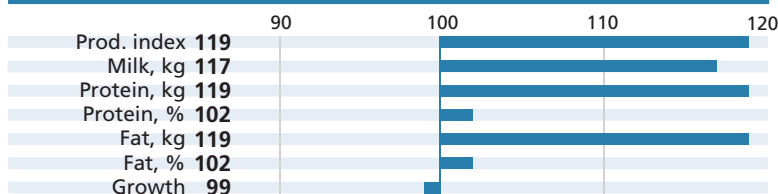


Conformation

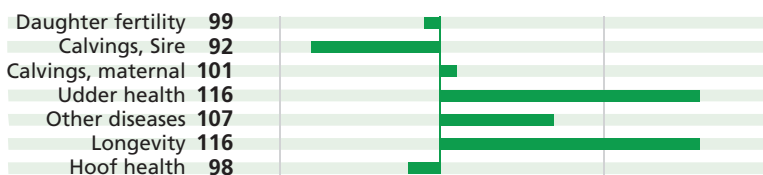


RDM 37373
S VR Cigar
MGS R Facet
MGGS R Bangkok

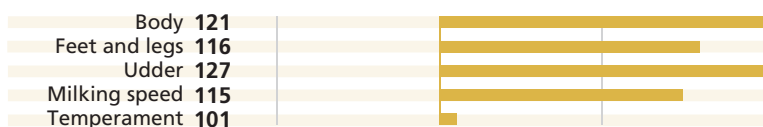
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



VR Crone is the best of VR Cigar sons. He is top in production, health and conformation. Very nice pedigree with excellent genomic proofs promise beautiful daughters with good production. Also for robotic milking!

NTM +35

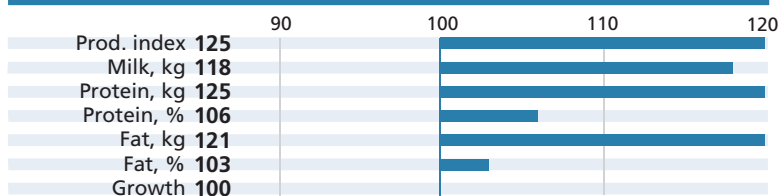
VR Babylon

GENVIK[®] PLUS

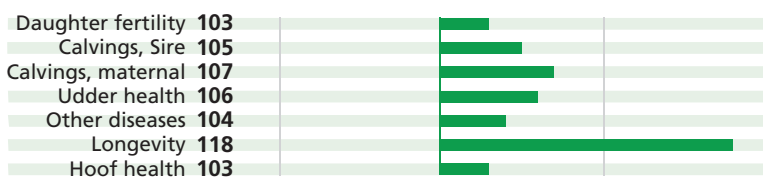


RDM 37307
S Buckarby
MGS S Adam
MGGS VEST Bæk

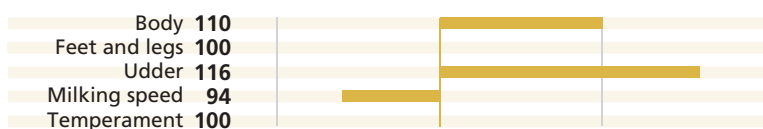
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



VR Babylon is now best of Buckarby sons. He is very good in production traits, both in solids and volume. If you are looking for functional cows, Babylon is your choice. Calving ease, health and conformation means good longevity!

NTM +33 VR Porter

GENVIK[®] PLUS



RDM 37365
S Pell Pers
MGS R Fastrup
MGGS O Brolin



Longevity

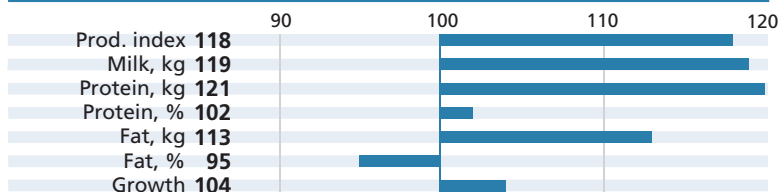


Milk
Production



Udder
Health

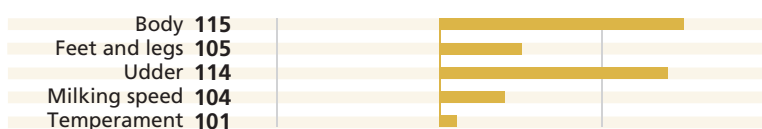
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



© Ely Geverink

VR Porter has the highest NTM of Pell-Pers sons. Porter is a good combination of production, health, conformation and functional traits. Longevity is one of the highest in the breed, so remember this when selecting the bulls!

NTM +32 VR Vimpula

GENVIK[®] PLUS



FAY 46807
S S. Valpas
MGS Peterslund1213
MGGS K.Etroni



Longevity

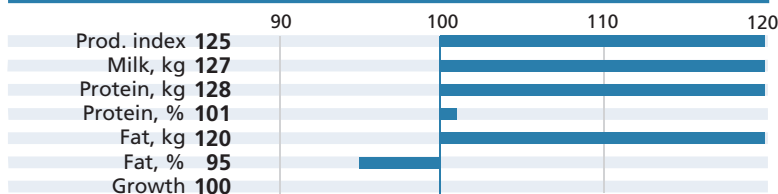


Daughter
Fertility



Milk
Production

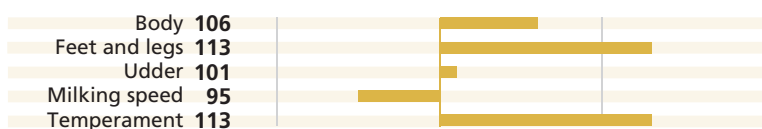
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



Alex Arkin

VR Vimpula is an excellent production bull. Sired by Valpas and Peterslund as MGS you can get daughters with good fertility, health and temperament.

NTM +28 VR Flame

GENVIK[®] PLUS



SRB 99507
S V Föske
MGS Gunnarstorp
MGGS O Brolin R



Longevity

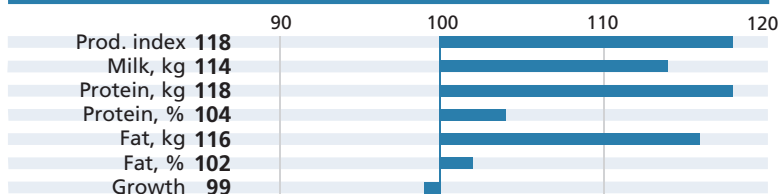


Daughter Fertility

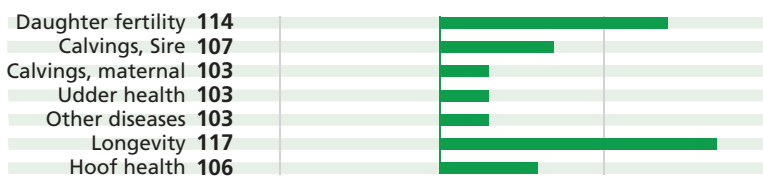


Milk Production

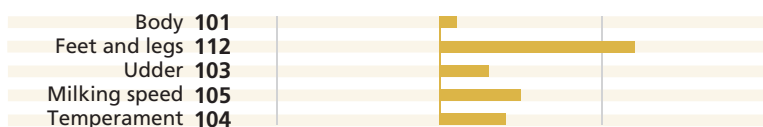
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



VR Flame is a son of Föske. Like his sire, he is a good bull in hoof health and longevity. Daughter fertility index 115 shows that this bull really has fertile daughters!

NTM +27 VR Ultimo

GENVIK[®] PLUS



SRB 99517
S Ullimulli
MGS Gunnarstorp
MGGS O Brolin R



Longevity

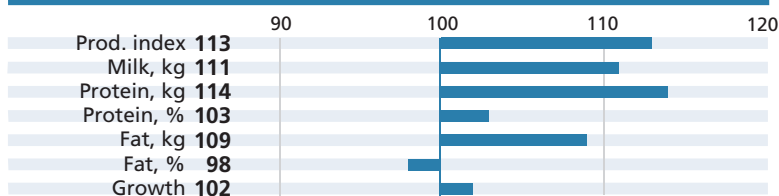


Daughter Fertility

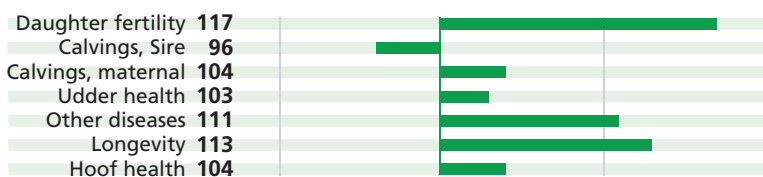


Hoof Health

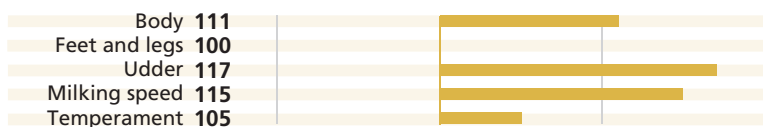
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



VR Ultimo is sired by Ullimulli. Ultimo is a good example of functionality. The proofs for fertility, calving traits, milking speed, health, temperament and hoof health are all positive. Together with good production and conformation it means longevity!

NTM +27

VR Hammer

GENVIK[®] PLUS



SRB 99492
S R Haslev
MGS G Edbo
MGGS Peterslund



Longevity

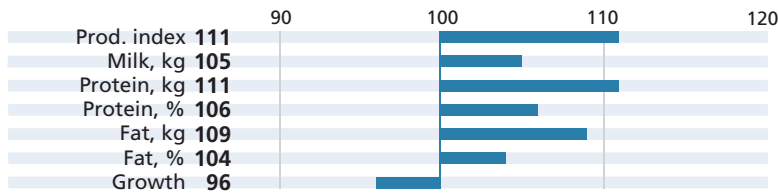


Easy Calvings

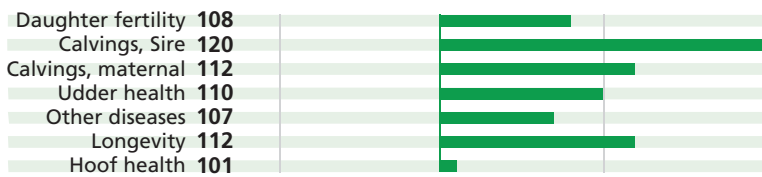


Milk Production

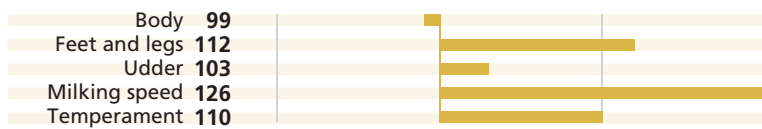
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



VR Hammer is a R Haslev son and his MGS is Edbo. Haslev has very good breeding values for production, both milk and components. With good milking speed index 131 the daughters are very good in robotic milking.

NTM +25

VR Borsse

GENVIK[®] PLUS



FAY 46303
S Buckarby
MGS K. Toivo
MGGS N.Ooppium



Longevity

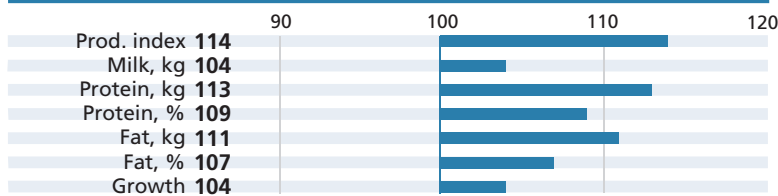


Udder Health

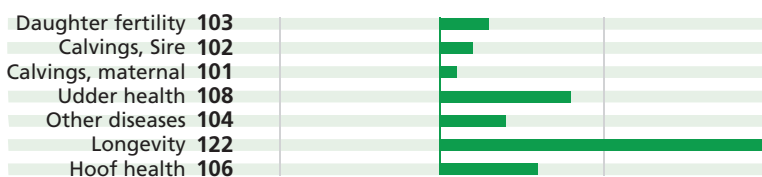


Conformation

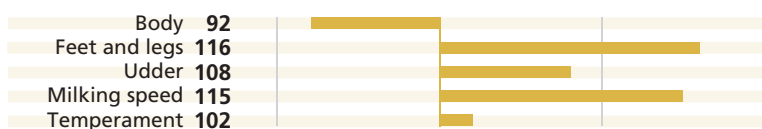
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



VR Borsse is one of the best genomic bulls in VikingRed. The pedigree is nice: Buckarby as a sire and Toivo as a MGS can promise you good results. Borsse has good breeding values for production, fertility, calving ease and conformation. Together all these = good longevity!

NTM +25 VR Fergus



Longevity



Daughter Fertility

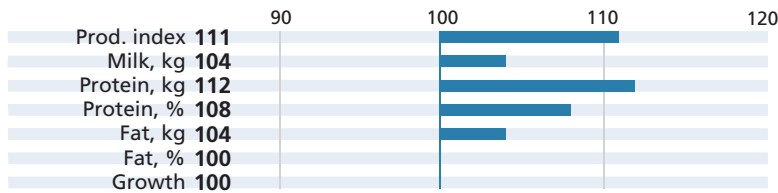


Conformation

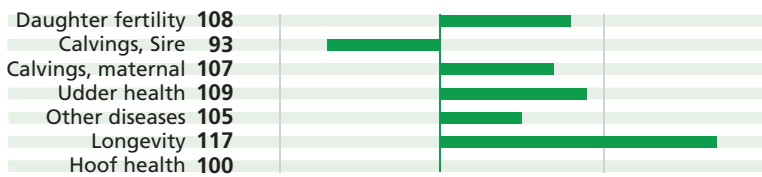


RDM 37014
S R Facet
MGS R David
MGS Orraryd

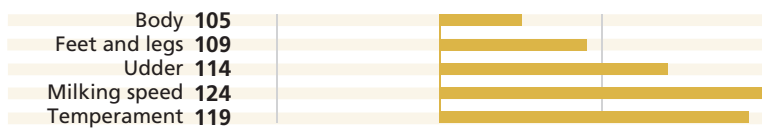
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



© Elly Geverink

VR Fergus is from an R David cow. R David is one of the most influential red bulls in the last decade. This daughter is an exceptional cow with 91 on overall classification and an average yield of 10,600 kg of milk.

NTM +22 VR Vauhti ET



Milk Production

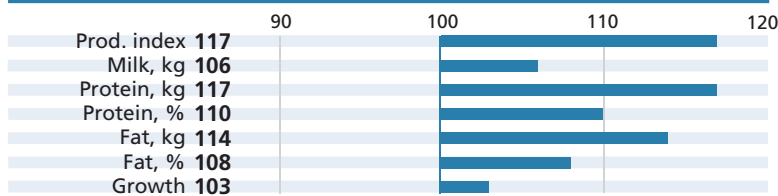


Conformation

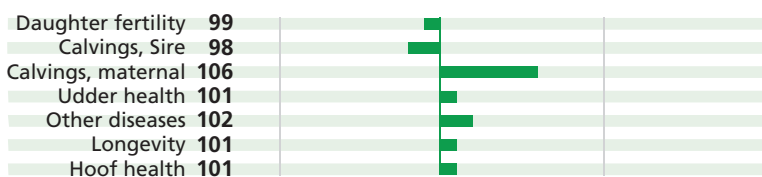


FAY 46605
S Vret
MGS H.Piuha
MGS N.Ooppium

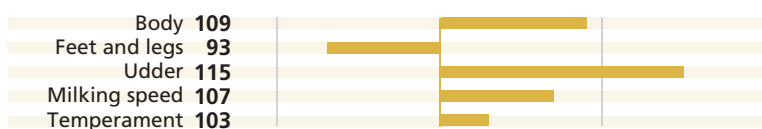
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



© Elly Geverink

VR Vauhti is again a good bull from Asmo Nucleus herd. This Vret son was flushed in Asmo and it was sold as an embryo to private herd. VR Vauhti is a good production bull with good breeding values for stature and udders.

NTM +20 VR Nasta

GENVIK[®] PLUS



FAY 46361
S NoraPrästgård
MGS P.Orkko
MGGS H.Kingi



Longevity

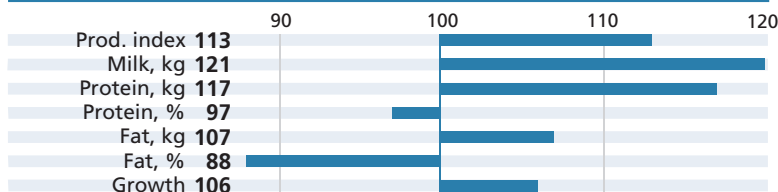


Milk
Production



Udder
Health

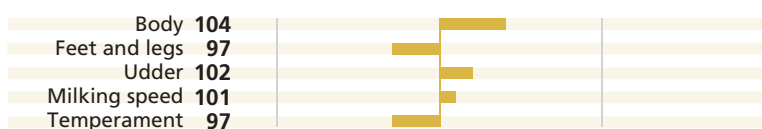
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



Let us introduce our polled bull VR Nasta, sired by Nora Prästgård, MGS Orkko. VR Nasta is heterozygote polled bull so half of the calves are born polled. Together with this you will get productivity, udder health and longevity.

NTM +19 VR Nero ET

GENVIK[®] PLUS



FAY 46162
S NoraPrästgård
MGS Andersta1967
MGGS N.Ooppium



Longevity

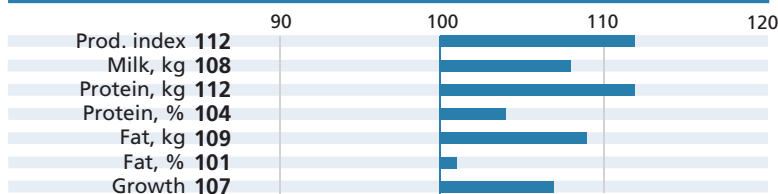


Hoof Health

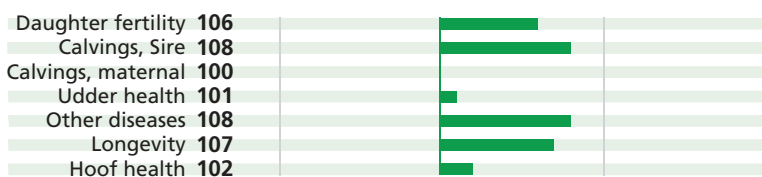


Milk
Production

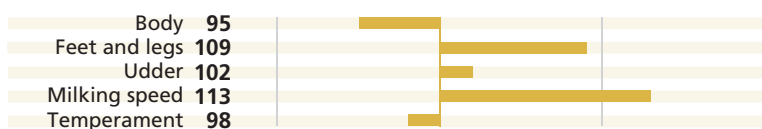
PRODUCTION TRAITS



HEALTH TRAITS



CONFORMATION TRAITS



Our best homozygous polled bull is VR Nero P, sired by Nora Prästgård, MGS Andersta. He comes from Asmo Nucleus Herd and is very good in production traits as well as in fertility, calving ease, milking speed and longevity.

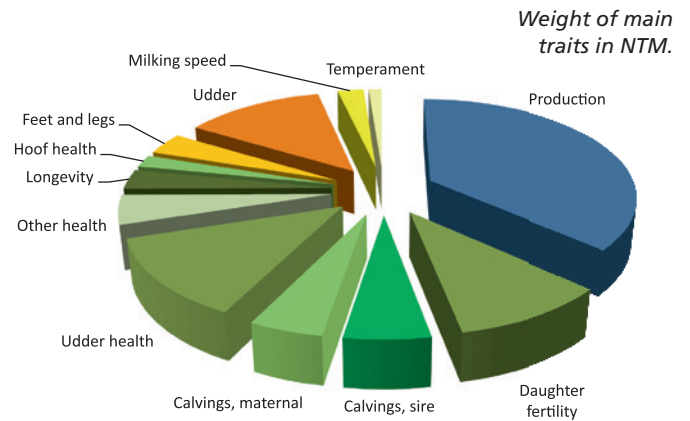
Understand the benefit from high NTM – increased profit!

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?

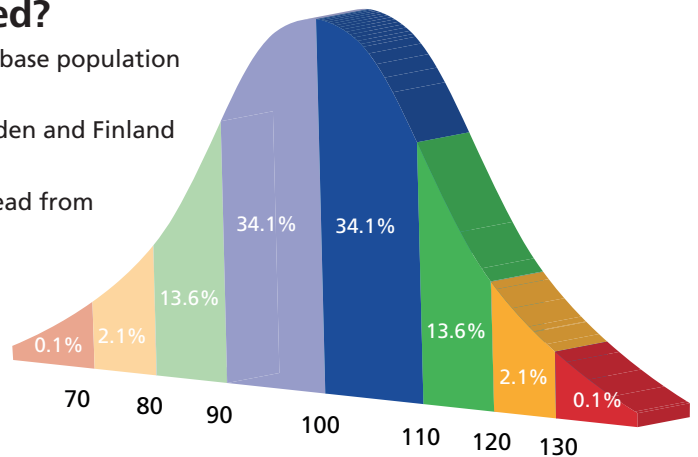
EBVs of all animals are adjusted in such a way that animals in the base population have an average index of 100.

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	+ 219 kg milk
Fat index	+ 9.9 kg fat
Fat percentage	+ 0.12 %
Protein index	+ 7.2 kg protein
Protein percentage	+ 0.08 %
Growth	+ 11 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 6.6 days and 0.08 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 2.5 % and 1 % less stillborn calves
Udder health	1.5 % units less mastitis treatments in first lactation. 2.5 % units less mastitis treatments in second and third lactation
Other diseases	1.5% units less treatments for reproduction diseases, metabolic disorders and diseases in hooves, feet and legs in first and second lactation. 2.5 % 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	34 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 bull's 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

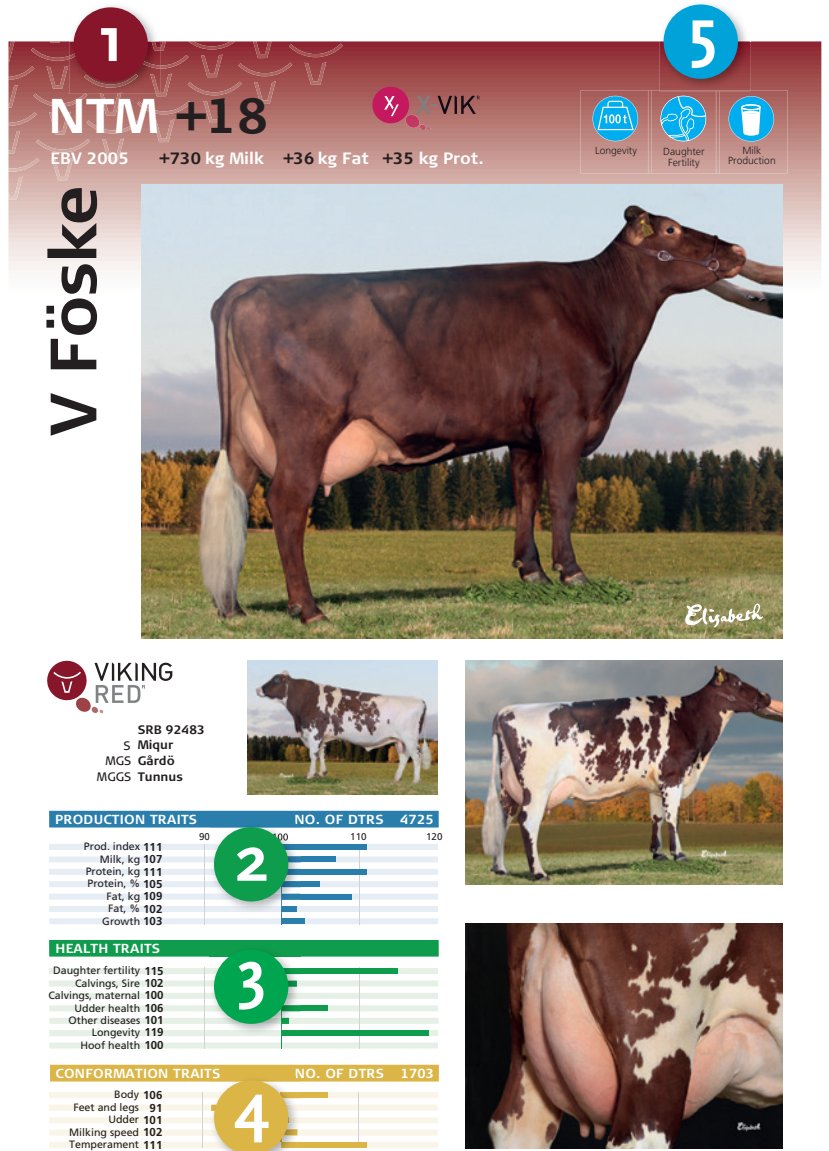
A comprehensive classification of body, legs and udder. Based on a linear description of conformation traits.

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



VIKINGGENETICS[®]

Sweden
Box 64
SE-532 21 Skara
T: +46 0511 267 00

Denmark
Ebeltoftvej 16
DK-8960 Randers SØ
T: +45 8795 9400

Finland
Box 95
FI-15871 Hollola
T: +358 40 311 5000

www.vikinggenetics.com export@vikinggenetics.com