

# Sire Directory 2014

Online edition – September



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# Adding value every day

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

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



## Breed statistics

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

# NTM +25

Triple aAa: 534162  
Cappa Casein: AB



Milk Production



Udder Health



Conformation

EBV 2005

+763 kg Milk

+51 kg Fat

+42 kg Prot.

# VJ Husky



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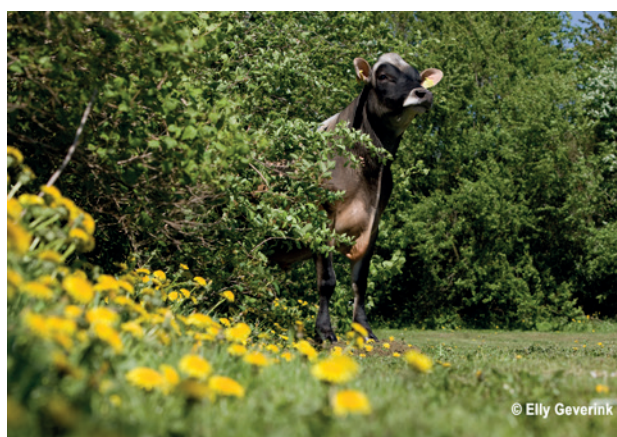
VJ Husky is out of "Rønholm May Dodo" and the first daughter proven DJ Hulk son, world wide. VJ Husky is an extremely good overall sire. Notice the high production and high protein percentage. Tall daughter of excellent type with strong fore udders, shallow udders and thick teats. And then add the good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



JER 303402  
S DJ Hulk  
MGS DJ May  
MGGS Q Impuls



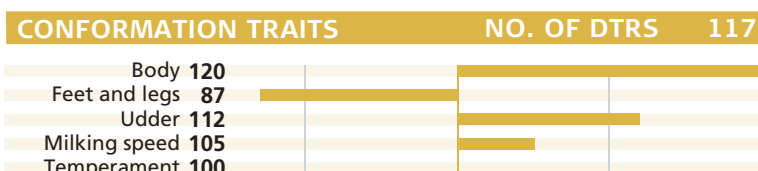
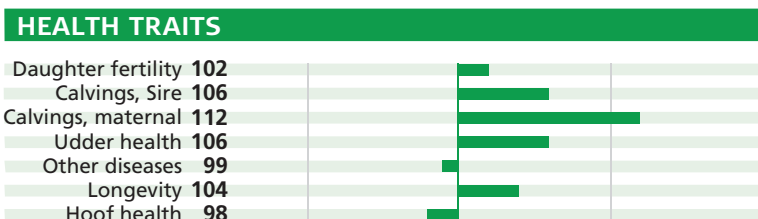
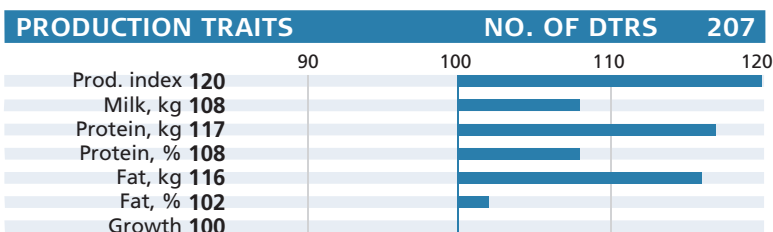
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# NTM +23

Triple aAa: 651423  
 Cappa Casein: BB  
 Beta Casein: A2/A2

EBV 2005 +569 kg Milk +62 kg Fat +41 kg Prot.



Daughter Fertility



Components

# VJ Lure



VJ Lure is out of the famous "Stjerne" (star) family from the Rynkeby herd. Dam is "Rynkeby Impuls Stjerne 2". Both dam, MGD and MGGD has milked more than 7000 kg milk with more than 6.7 and 4.5% average in several lactations. All female offspring from "Rynkeby Impuls Stjerne 2" has become bull mothers. VJ Ramses is out of a sister to VJ Lure and some of our best genomic sires are out of the family. VJ Lure is a production bull, breeding high percentages. Fertility, good udder health and longevity, even he is a production bull. VJ Lure is the sire of some of our best Genomic bulls, VJ Lukowa and VJ Lappe.

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VIKING JERSEY

JER 303259  
 S DJ Lirsk  
 MGS Q Impuls  
 MGGS DJ Trick



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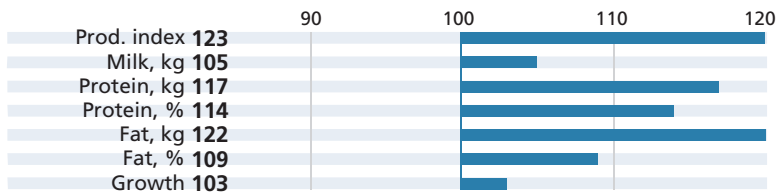


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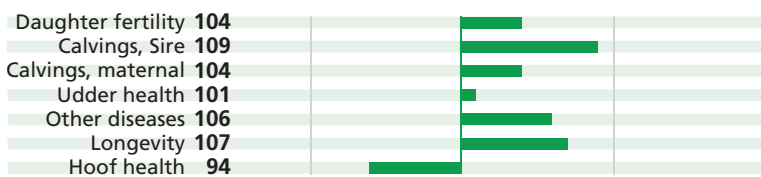


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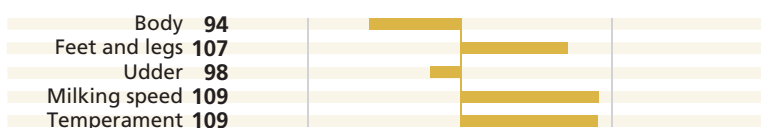
## PRODUCTION TRAITS NO. OF DTRS 290



## HEALTH TRAITS



## CONFORMATION TRAITS NO. OF DTRS 165



# NTM +23

Triple aAa: 216345  
 Cappa Casein: BB  
 Beta Casein: A2/A2



Hoof Health



Easy Calvings



Components

EBV 2005 +803 kg Milk +71 kg Fat +46 kg Prot.

# DJ Hulk



© Elly Geverink

DJ Hulk is the breed leader for production, with 4000 daughters in his proof. He is the only proven son of Q Handix marketed world wide and he is 78% Danish, 14% American and 8% NZ. DJ Hulk is an improver of fat and protein percentage and he breeds daughters of excellent type. Hoof health, udder health and longevity are excellent as well. DJ Hulk is the sire of VJ Husky and a number of the best Genomic bulls.

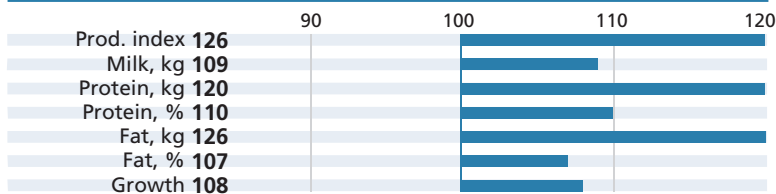


JER 302595  
 S Q Handix  
 MGS FYN Lemvig  
 MGGS JAS Byg

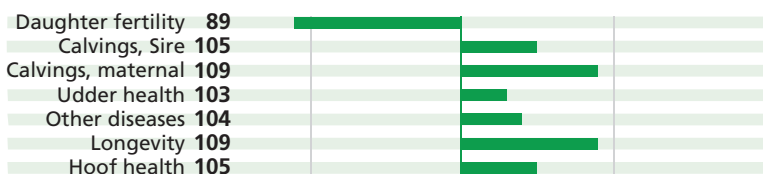


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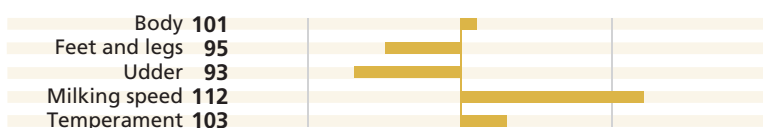
## PRODUCTION TRAITS NO. OF DTRS 5186



## HEALTH TRAITS



## CONFORMATION TRAITS NO. OF DTRS 2985



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# NTM +22

Triple aAa: 651423  
 Cappa Casein: AB  
 Beta Casein: A2/A2



Longevity



Daughter Fertility



Milk Production

EBV 2005 +1009 kg Milk +36 kg Fat +36 kg Prot.

# VJ Link



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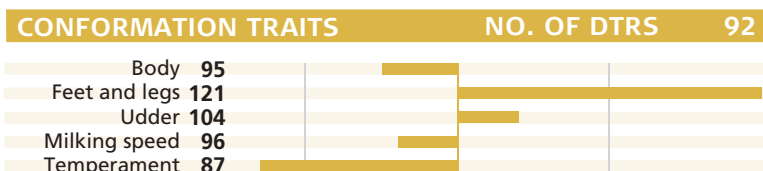
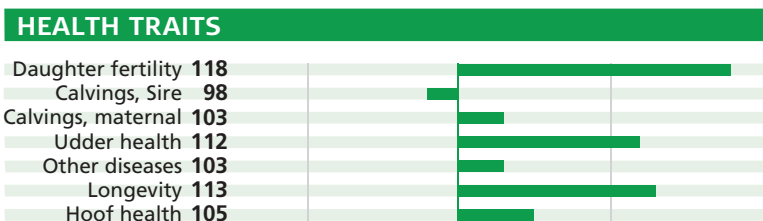
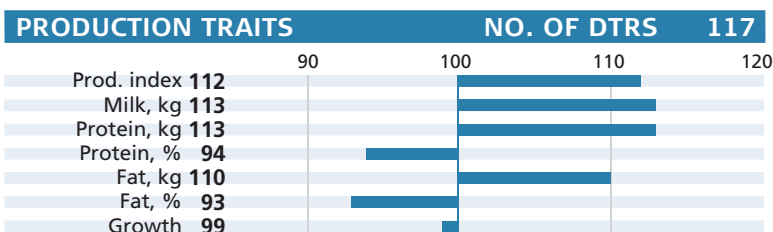
JER 303327  
 S Legacy  
 MGS Q Hirse  
 MGGS JAS Hot



© Elly Geverink



Alex Arkink



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

# NTM +21

Triple aAa: 156324



Longevity



Udder Health



Conformation

EBV 2005 +1052 kg Milk +31 kg Fat +40 kg Prot.

# VJ Hilario



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

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JER 303406  
S Q Hirse  
MGS Q Impuls  
MGS FYN Lemvig



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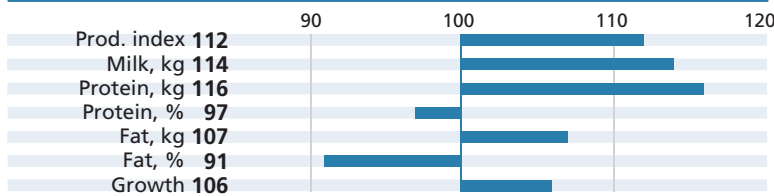


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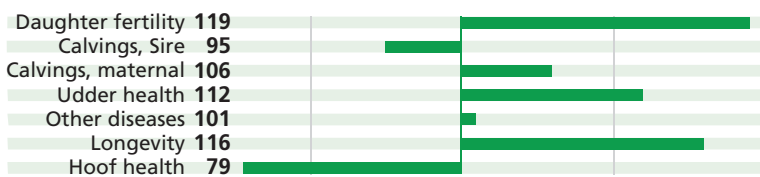


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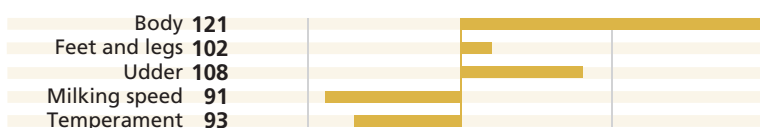
## PRODUCTION TRAITS NO. OF DTRS 151



## HEALTH TRAITS



## CONFORMATION TRAITS NO. OF DTRS 90



# NTM +17

Triple aAa: 342516  
Cappa Casein: AB

EBV 2005

-53 kg Milk +38 kg Fat +15 kg Prot.



Daughter Fertility



Easy Calvings



Components

# VJ Tester



© Elly Geverink

Outcross pedigree with very special gene contribution. 83% Danish, 9% US and 8% NZ genes. Exceptional high percentages and super F&L, fertility, health and longevity traits. Excellent choice for DJ Zuma daughters.



JER 303213  
S DJ Topholm  
MGS Q Hirse  
MGGS FYN Lemvig



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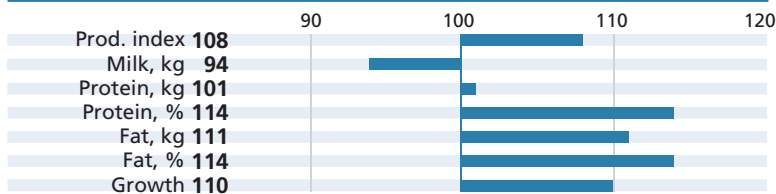


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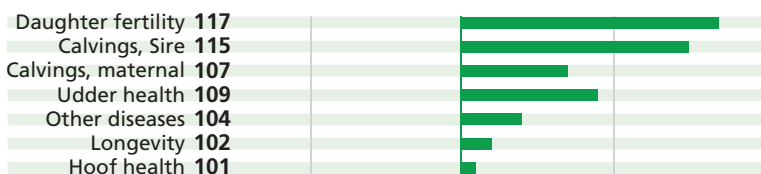


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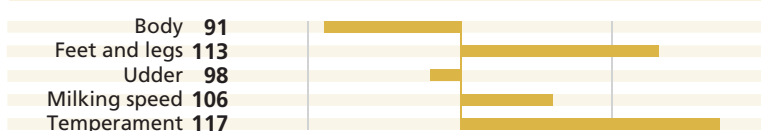
## PRODUCTION TRAITS NO. OF DTRS 337



## HEALTH TRAITS



## CONFORMATION TRAITS NO. OF DTRS 229





# NTM +14

Triple aAa: 165423  
Cappa Casein: AB  
Beta Casein: A2/A2

EBV 2005 +803 kg Milk +71 kg Fat +47 kg Prot.



Longevity



Daughter Fertility



Easy Calvings

# VJ Herodot



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VJ Herodot has very little or no relation to other dominating sire lines world wide. He is out of "C&V Jersey Bregne Norma", the dam of DJ Zorba and DJ Logo. Her lifetime production was nearly 90.000 kg milk with 6.06% fat and 4.05% protein. VJ Herodot is a breed leader for daughter fertility. Along with that, VJ Herodot breeds shallow udders with well attached fore udders, good longevity and good health. VJ Herodot is the sire of one of our best Genomic bulls, VJ Holdo.



JER 303289  
S Q Hirse  
MGS JAS Bregne  
MGGS O Mister T



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PRODUCTION TRAITS		NO. OF DTRS		592	
		90	100	110	120
Prod. index	100				
Milk, kg	106				
Protein, kg	101				
Protein, %	91				
Fat, kg	101				
Fat, %	95				
Growth	125				

HEALTH TRAITS		NO. OF DTRS		378
Daughter fertility	122			
Calvings, Sire	103			
Calvings, maternal	118			
Udder health	108			
Other diseases	107			
Longevity	118			
Hoof health	105			

CONFORMATION TRAITS		NO. OF DTRS		378
Body	104			
Feet and legs	108			
Udder	108			
Milking speed	107			
Temperament	94			



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# NTM +14

Triple aAa: 423561  
Cappa Casein: AB  
Beta Casein: A2/A2

EBV 2005 +768 kg Milk +55 kg Fat +34 kg Prot.



Hoof Health



Milk Production



Total Merit Index

# VJ Himp



© Elly Geverink

One of the worlds best production sires. Breed by Oesterbygaard, the breeders of Q Zik, DJ Hovborg, DJ Jason and many other outstanding sires. VJ Himp is the only DJ Hovborg son available world wide. The contributions of genes is 73% Danish, 25% US and 2% NZ. Excellent sire for health, both Hoof and Udder as well as for F&L and type.



JER 303275  
S DJ Hovborg  
MGS Q Impuls  
MGGS Blanke TM



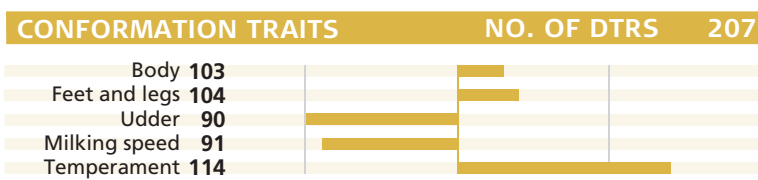
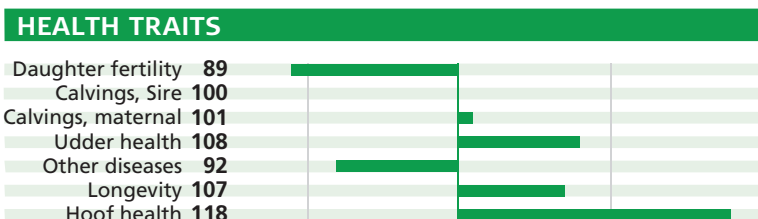
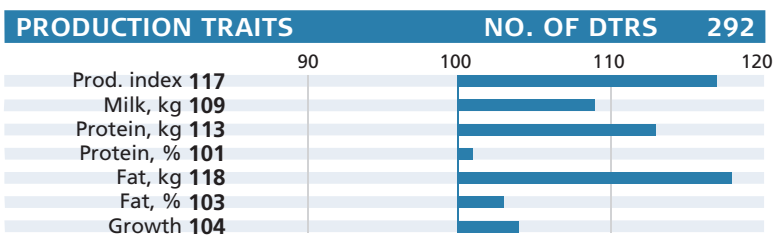
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# NTM +14

Triple aAa: 231465  
 Cappa Casein: AB  
 Beta Casein: A2/B

EBV 2005

-189 kg Milk

+30 kg Fat

+15 kg Prot.



Daughter Fertility



Hoof Health



Components

# VJ Hjern



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JER 303212

S Q Hirse

MGS Q Handix

MGGS SKÆ Ide



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PRODUCTION TRAITS		NO. OF DTRS		107	
		90	100	110	120
Prod. index	107				
Milk, kg	92				
Protein, kg	101				
Protein, %	120				
Fat, kg	107				
Fat, %	114				
Growth	98				

HEALTH TRAITS		NO. OF DTRS		85	
		90	100	110	120
Daughter fertility	113				
Calvings, Sire	92				
Calvings, maternal	115				
Udder health	105				
Other diseases	106				
Longevity	106				
Hoof health	105				

CONFORMATION TRAITS		NO. OF DTRS		85	
		90	100	110	120
Body	119				
Feet and legs	91				
Udder	103				
Milking speed	109				
Temperament	103				

VJ Hjern is bred in the "Adelgaard" herd. He is a total out cross with no FYN Lemvig and Q Impuls in the pedigree. VJ Hjern will increase percentages in the milk, especially protein percentage. Daughters are of excellent type type, with very shallow udders. VJ Hjern is a fertility, health and longevity specialist.

# NTM +14

Triple aAa: 231465  
Cappa Casein: AB  
Beta Casein: A2/B

EBV 2005 +559 kg Milk +35 kg Fat +28 kg Prot.



Longevity



Daughter Fertility



Udder Health

# DJ IZZY



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DJ Izzy is an interesting combination of leading genetics: 69% Danish, 16% American, 10% Canadian and 5% New Zealand. The overseas sires in the pedigree are Lester, Top Brass, Imperial and Ruscot Star Career. Nearly 4000 daughters are milking, making his proof extremely reliable. DJ Izzy breeds very shallow and well attached udders. Teats have a good size and placement. DJ Izzy will be an excellent choice if you have no Q Impuls or Q Zik in the pedigree.



JER 302708  
S Q Impuls  
MGS Q Zik  
MGGS Hibiscus



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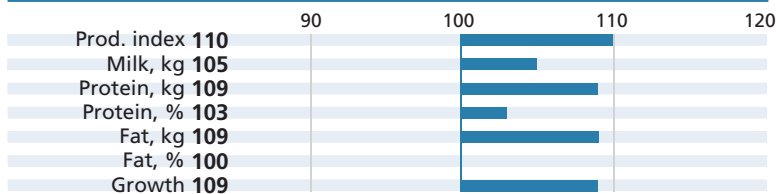


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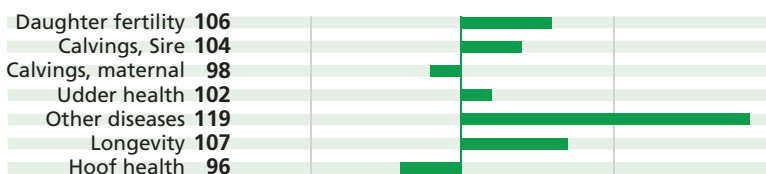


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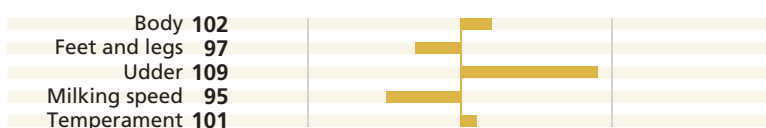
## PRODUCTION TRAITS NO. OF DTRS 4430



## HEALTH TRAITS



## CONFORMATION TRAITS NO. OF DTRS 2788



# NTM +14

Triple aAa: 324156  
 Cappa Casein: AB  
 Beta Casein: A2/B

EBV 2005 +159 kg Milk +14 kg Fat +7 kg Prot.



Longevity



Daughter Fertility



Udder Health

# DJ Holmer



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Reliability, components, udders, health and longevity characterizes DJ Holmer. DJ Holmer is out of the famous "J" family from the Espe-Holm herd. DJ Holmer was the first Q Hirse son to enter the international Jersey scene. DJ Holmer is 70% Danish, 19% American and 11% New Zealand. DJ Holmer daughters are of average stature with good capacity and with extremely good udders. DJ Holmer is a breed leader for udder health, fertility and longevity. Late 2014 the second crop DJ Holmer daughters will calve. App. 7000 heifers are on the way in Denmark.



JER 303057  
 S Q Hirse  
 MGS FYN Lemvig  
 MGGS JAS Bregne



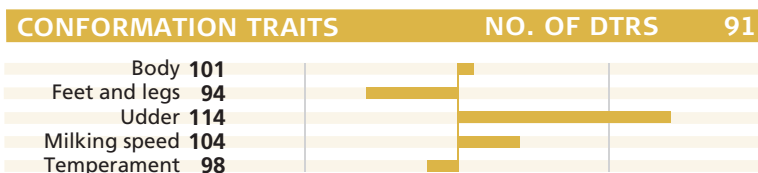
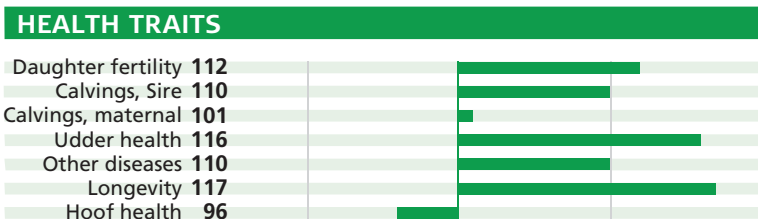
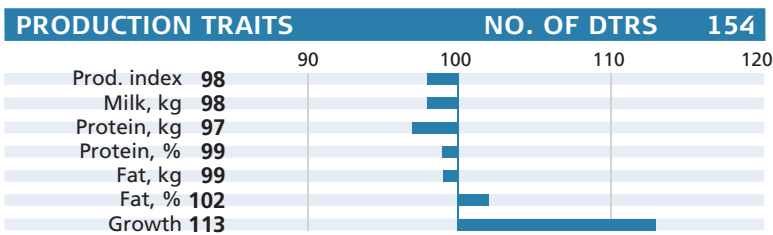
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# NTM +13

Triple aAa: 135246  
Cappa Casein: AB  
Beta Casein: A2/A2

EBV 2005

-53 kg Milk

+38 kg Fat

+15 kg Prot.

# VJ Pick



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Out cross breeding healthy daughter with strong F&L and exceptional udders. VJ Pick – a DJ Prima out of DJ Trick, with DJ Prima being a Perimeter son and DJ Trick being a FYN Toledo son. The contribution of genes is 52% Danish, 47% North American and 2% New Zealand. VJ Pick is out of the famous “J” family from Espe-Holm herd, including VJ Hilario, DJ Holmer and VJ Tulsa as well. VJ Pick breeds very high protein percentage and daughters will have very shallow udders with strong fore udder attachment. Udder health is good and milking speed is exceptional.



JER 303273  
S DJ Prima  
MGS DJ Trick  
MGGS Q Impuls



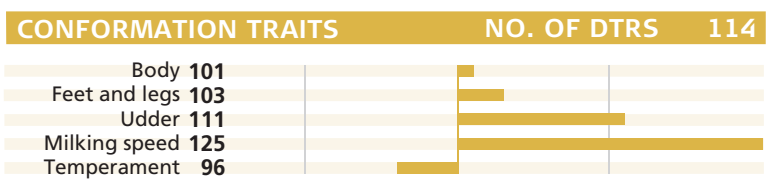
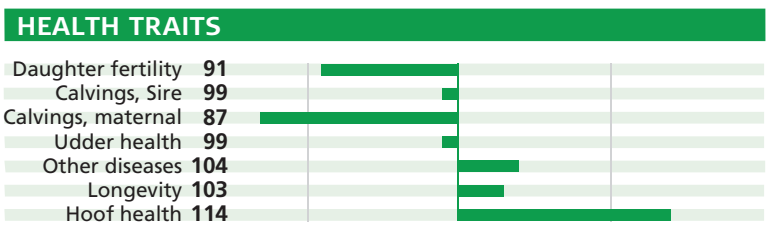
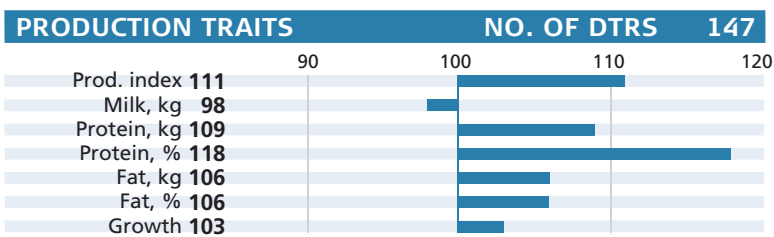
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# NTM +10

Triple aAa: 342516  
Cappa Casein: BB  
Beta Casein: A2/A2



Udder Health



Components



Conformation

EBV 2005 -260 kg Milk +31 kg Fat +18 kg Prot.

# DJ Lix



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DJ Lix is the only Q Lor son marketed world wide. He is out of the "Stensby family" as DJ Lirsk, Brumle Bl, JAS Dixi, FYN Tanic and other prominent Danish sires – all well known for longevity and strong udders. DJ Lix breeds extremely high percentages – especially protein and he breeds exceptional good udders. 6000 second crop daughters will calve in Denmark 2014 – breeders are excited!



JER 302997  
S Q Lor  
MGS Q Zik  
MGGS ØDA Rix



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PRODUCTION TRAITS	NO. OF DTRS	1108
Prod. index	109	90 100 110 120
Milk, kg	91	
Protein, kg	103	
Protein, %	126	
Fat, kg	107	
Fat, %	116	
Growth	82	

HEALTH TRAITS	NO. OF DTRS	425
Daughter fertility	74	
Calvings, Sire	108	
Calvings, maternal	105	
Udder health	102	
Other diseases	102	
Longevity	98	
Hoof health	97	

CONFORMATION TRAITS	NO. OF DTRS	425
Body	88	
Feet and legs	101	
Udder	118	
Milking speed	107	
Temperament	101	

# Viking Top 10 – make your choice!

NTM	
VJ Hjort	28
VJ Hihl	26
VJ Husky	25
VJ Lukowa	25
DJ Hulk	23
VJ Lure	23
VJ Link	22
VJ Lappe	22
VJ Hilario	21
VJ Bing	21

PRODUCTION	
DJ Hulk	126
VJ Lure	123
VJ Hjort	121
VJ Hihl	120
VJ Husky	120
VJ Himp	117
VJ Lukowa	115
VJ Bing	115
VJ Lappe	114
VJ Link	112

DAUGHTER FERTILITY	
VJ Herodot	122
VJ Hilario	119
VJ Link	118
VJ Tester	117
VJ Hjern	113
DJ Holmer	112
VJ Lappe	108
DJ Izzy	106
VJ Lure	104
VJ Hihl	104

CALVINGS SIRE	
VJ Hjern	92
VJ Hilario	95
VJ Lappe	97
VJ Link	98
VJ Pick	99
VJ Hihl	100
VJ Hjort	100
VJ Himp	100
VJ Janko	101
VJ Herodot	103

UDDER HEALTH	
VJ Lukowa	118
DJ Holmer	116
VJ Janko	115
VJ Hilario	112
VJ Link	112
VJ Hihl	112
VJ Hjort	112
VJ Bing	112
VJ Tester	109
VJ Himp	108

HOOF HEALTH	
VJ Himp	118
VJ Pick	114
VJ Link	105
VJ Herodot	105
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DJ Hulk	105
VJ Tester	101
VJ Husky	98
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LONGEVITY	
VJ Herodot	118
DJ Holmer	117
VJ Hilario	116
VJ Lappe	114
VJ Link	113
VJ Janko	113
VJ Bing	113
VJ Hjort	112
DJ Hulk	109
VJ Lukowa	109

UDDER	
DJ Lix	118
DJ Holmer	114
VJ Hjort	114
VJ Lappe	113
VJ Husky	112
VJ Pick	111
VJ Lukowa	110
DJ Izzy	109
VJ Herodot	108
VJ Hilario	108

FEET & LEGS	
VJ Link	121
VJ Tester	113
VJ Bing	109
VJ Lappe	108
VJ Herodot	108
VJ Lure	107
VJ Himp	104
VJ Hjort	103
VJ Pick	103
VJ Hilario	102

## Use sexed semen by VikingGenetics!

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

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







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# Fast track your herd with Genomic Bulls!

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

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

base give us a tremendous tool for accurate genomic selection. Young bulls with the very best genomic values are used beyond the inseminations for progeny testing, and are marketed as GenVikPLUS. Here we can offer you the very best bulls, with the most interesting pedigrees.



[www.vikinggenetics.com](http://www.vikinggenetics.com)

NTM +28 Triple aAa: 432

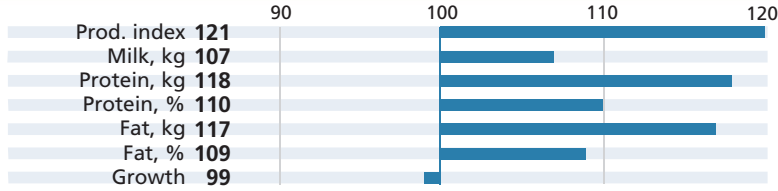
GENVIK<sup>®</sup> PLUS

# VJ Hjort

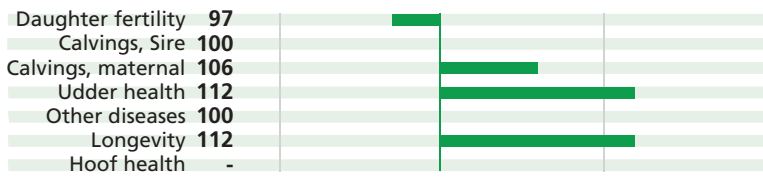


JER 303828  
S VJ Husky  
MGS DJ Zuma  
MGGS DJ Basse

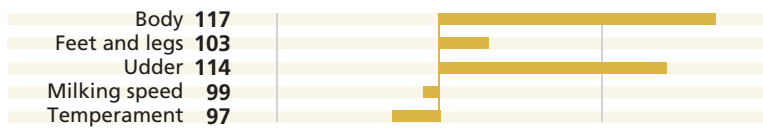
## PRODUCTION TRAITS



## HEALTH TRAITS



## CONFORMATION TRAITS



VJ Hjort is the highest genomic bull. The pedigree consists of the best proven bulls, VJ Husky as a sire and DJ Zuma as MGS. VH Hjort has excellent proofs for production and conformation. The daughters will be taller than average. Good health and longevity!

NTM +26 Triple aAa: 342510

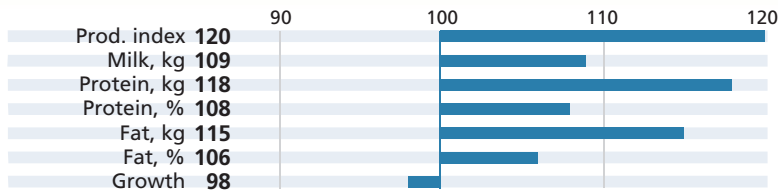
GENVIK<sup>®</sup> PLUS

# VJ Hihl

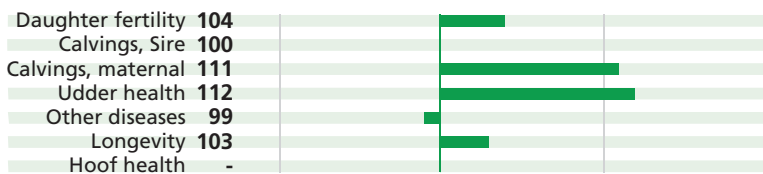


JER 303812  
S VJ Husky  
MGS DJ Zuma  
MGGS DJ Jason

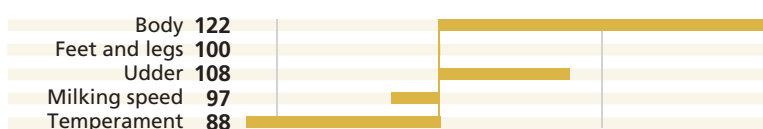
## PRODUCTION TRAITS



## HEALTH TRAITS



## CONFORMATION TRAITS



VJ Hihl is out of "Bruunsgaard Zuma Sangko" with DJ Jason (M Jace) and DJ Aron (C Alf) in the pedigree. The maternal line is known for high percentages, all higher than 6.25% fat and 4.25% protein. VJ Hihl breeds excellent stature, type, udders and udder attachment. VJ Hihl is the first VJ Husky son to be marketed.

NTM +25

Triple aAa: 432561

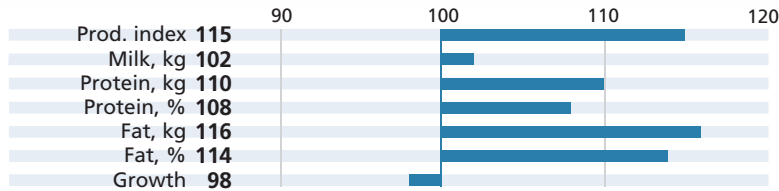
GENVIK<sup>®</sup> PLUS

# VJ Lukowa

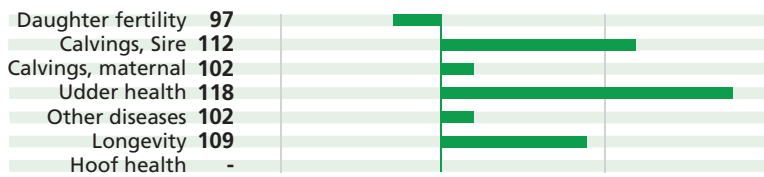


JER 303732  
S VJ Lure  
MGS DJ Hulk  
MGGs Q Hirse

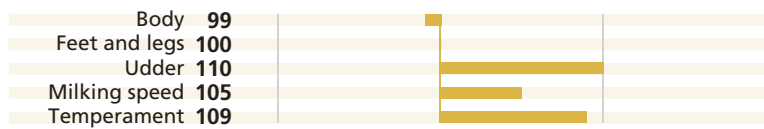
## PRODUCTION TRAITS



## HEALTH TRAITS



## CONFORMATION TRAITS



© Elly Geverink

VJ Lukowa is the highest ranking VJ Lure son in VikingGenetics, out of "Lundsberggaard Hulk Mie".

VJ Lukowa is a young bull with very high production potential, and even with high percentages. 70% of the genes are Danish, 24% North American and 6% NZ. VJ Lukowa is heavily used as sire of sons in the Viking Jersey breeding program.

NTM +22

Triple aAa: 546312

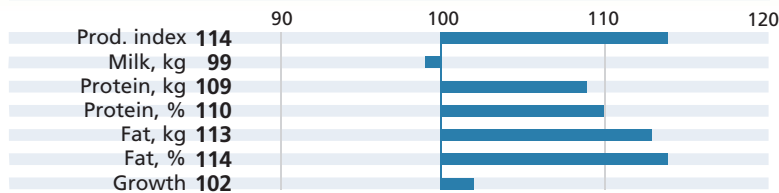
GENVIK<sup>®</sup> PLUS

# VJ Lappe

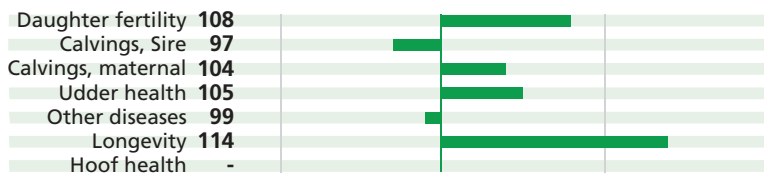


JER 303785  
S VJ Lure  
MGS DJ May  
MGGs Q Laf

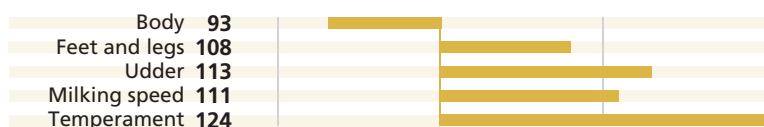
## PRODUCTION TRAITS



## HEALTH TRAITS



## CONFORMATION TRAITS



Alex Arkink

VJ Lappe is a VJ Lure son out of "Kapevgaard May Katrine". VJ Lappe is expected to breed high production, good fertility, longevity and udders with excellent teat size and -placement.

NTM +21

Triple aAa: 423651

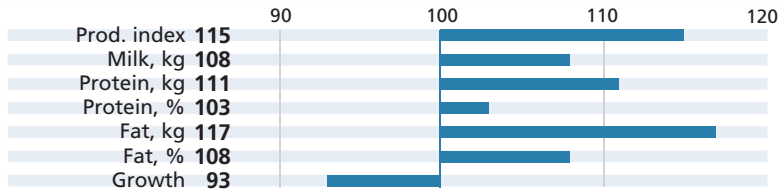
GENVIK<sup>®</sup> PLUS

# VJ Bing

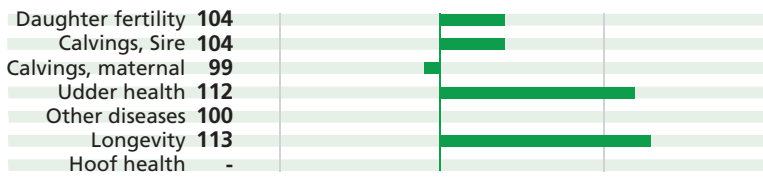


JER 303745  
S DJ Bindy  
MGS DJ Hulk  
MGGS DJ Zixten

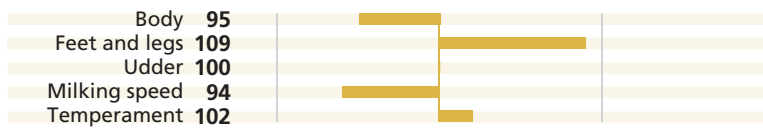
## PRODUCTION TRAITS



## HEALTH TRAITS



## CONFORMATION TRAITS



© Elly Geverink

VJ Bing is the highest ranking DJ Bindy son. His maternal grandsire is DJ Hulk, so the daughters produce lot of milk, protein and fat. In health and conformation traits VJ Bing is also a very good bull. The dam has produced in the first lactation 6850 kg milk with 6.62 of fat and 4.18 of protein.

NTM +20

Triple aAa: 423651

GENVIK<sup>®</sup> PLUS

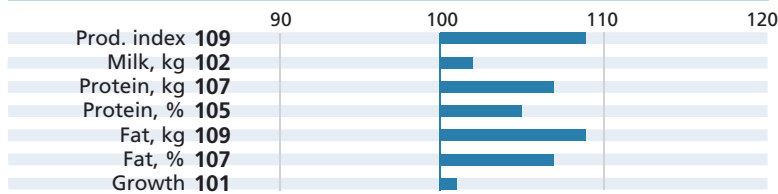
X-VIK<sup>®</sup>

# VJ Janko



JER 303787  
S DJ Jason  
MGS DJ Hulk  
MGGS DJ Lirsk

## PRODUCTION TRAITS



## HEALTH TRAITS



## CONFORMATION TRAITS

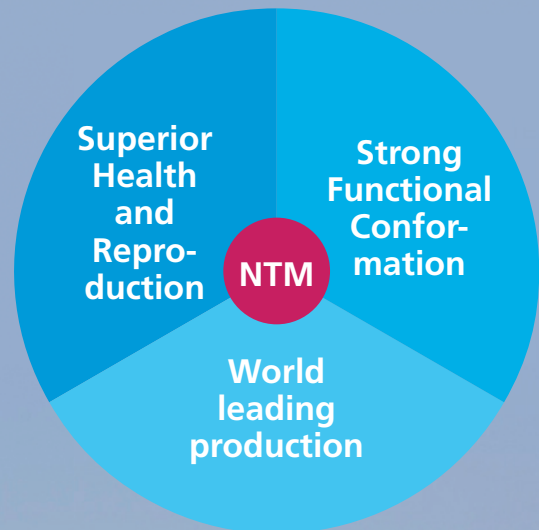


Alex Arkink

VJ Janko is the highest ranking DJ Jason son in the breed, out of "Blanke Hulk Ferytale". VJ Janko, as his sire DJ Jason (M Jace x Q Lic), is out cross and contributing to genetic diversity. VJ Janko will be a production and udder health improver.

# The best cows are almost invisible

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



VIKINGGENETICS<sup>®</sup>

[www.vikinggenetics.com](http://www.vikinggenetics.com) [export@vikinggenetics.com](mailto:export@vikinggenetics.com)

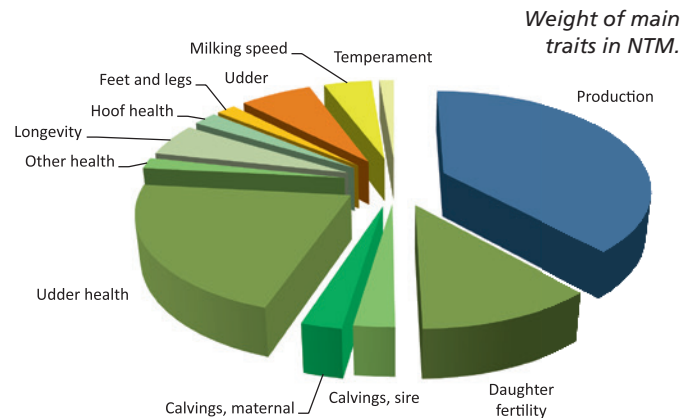
# Understand the benefit from high NTM – increased profit!

## 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?

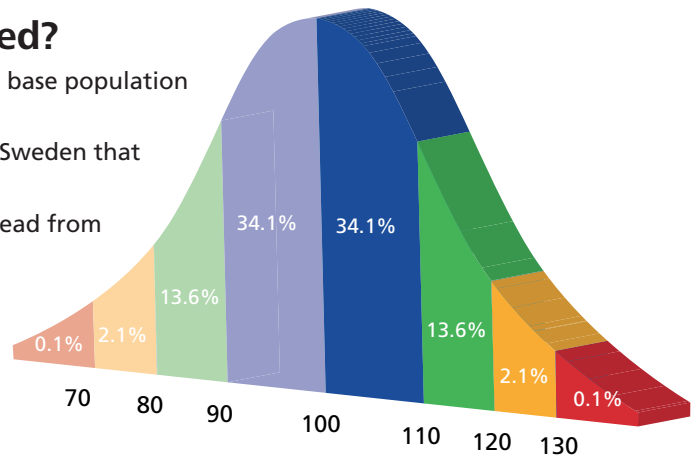
EBVs of all animals are adjusted in such a way that animals in the base population have an average index of 100.

For all traits a rolling base consisting of cows from Denmark and Sweden 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	+ 183 kg milk
Fat index	+ 10 kg fat
Fat percentage	+ 0.13 %
Protein index	+ 8 kg protein
Protein percentage	+ 0.08 %

Calculation of production index	- 0.3 x Milk + 0.5 x Fat + 0.8 x Protein
---------------------------------	--

### The value of +10 units for functional traits

Daughter fertility	Days open reduced by 4 days and 0.06 less services per pregnancy
Calvings, Sire (Maiden heifers)	Reduction in difficult calvings with 1 % and 1.2 % less stillborn calves
Calvings, Maternal (Maiden heifers)	Reduction in difficult calvings with 1 % and 2.4 % less stillborn calves
Udder health	3 % units less mastitis treatments in first lactation. 3-4 % units less mastitis treatments in second and third lactation
Other diseases	0.5 % units less treatments for reproduction diseases, metabolic disorders and diseases in hooves, feet and legs in first and second lactation. 2.2% 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	35 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. No weight in NTM for Viking Jerseys.

## 3 Health

**Daughter fertility:** Fertility data from heifers, first, second and third calvers. Includes number of inseminations, interval from calving to 1<sup>st</sup> 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 in to four different subindexes – early and late fertility disorder, feet and leg problems and metabolic diseases – these four sub-indexes are then weight together to the complete index for other diseases.

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

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

## 4 Conformation

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

**Legs:** A comprehensive evaluation of the legs.

**Udder:** A comprehensive evaluation of the udder.

**Temperament:** Based on farmer's observations.

**Milking Speed:** Based on farmer's observations.



## 5 Main characteristics

Symbols showing the main characteristics of the bull.



Longevity



Daughter Fertility



Total Merit Index



Components



Easy Calvings



Milk Production



Udder Health



Conformation



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T: +358 40 311 5000

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