

Imported Bull Semen

CATALOGUE - 2022

I Immunity®
DISEASE RESISTANT GENETICS



Reliability & Value

TWIGA CHEMICAL INDUSTRIES LTD.

P.O. Box 30172, NAIROBI-KENYA, Tel: 020-3942000, Fax: 020-3942405
Email:- info@twiga-chem.com Website:- www.twigachemicals.com



TWIGAVEX

Buparvaquone Injection

(Injections for E.C.F)



FOR ANIMAL TREATMENT ONLY

TWIGA-PENSTREP

Suspension for Injection



Reliability & Value

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PEAK EXPLOSION

PROGENESIS GUARANT MILLIONS VG-87-3YR-CAN
 WESTCOAST GUARANTEE
 PROGENESIS DUKE MOLDAVITE 1*
 S-S-I MONTROSS DUKE
 WOODCREST DEF MANHATTAN 5*



| | | | | |
|------------------------|----------------------|------------------------------------|-------------------------|---------------------------|
| GPA LPI +3549 | | PRO\$ 3505 | | |
| RDF BLF BYF CVF | | HH1F HH2F HH3F HH4F HH5F HH6F HCDF | | |
| Reg. #: HOCANM13353639 | aAa: 432651 | DMS: 234,345 | | |
| Born: 03/12/2019 | Kappa Casein: BB | Beta Casein: A2A2 | | |
| PRODUCTION | G Herds | G Daughters | 79% Rel | GPA 21* AUG |
| Milk kg 800 | Fat kg 118 | Fat % +0.77 | Protein kg 82 | Protein % +0.46 |

PROGENESIS GUARANT MILLIONS
DAM

| | | | |
|----------------------------------|------------|------------------------------|------------|
| HEALTH & REPRODUCTION | | | |
| Herd Life | 107 | Calving Ability | 104 |
| Somatic Cell Score | 107 | Daughter Calving Ability | 108 |
| Daughter Fertility | 103 | Milking Speed | 96 |
| Body Condition Score | 101 | Milking Temperament | 104 |
| Mastitis Resistance | 106 | Metabolic Disease Resistance | 103 |
| Feed Efficiency | 100 | | |



| | | | | | |
|---------------------|----------|----------------|-------------|---------|-------------|
| CONFORMATION | | G Herds | G Daughters | 75% Rel | GPA 21* AUG |
| Conformation | 5 | Dairy Strength | 1 | | |
| Mammary System | 5 | Rump | 0 | | |
| Feet & Legs | 4 | | | | |

PROGENESIS DUKE MOLDAVITE
GRANDDAM

| | | | | | |
|------------------------|--|--|--|----------|-----------|
| Udder Depth | | | | Shallow | 4S |
| Udder Texture | | | | Soft | 1 |
| Median Suspensory | | | | Weak | 0 |
| Fore Attachment | | | | Strong | 6 |
| Fore Teat Placement | | | | Close | 4C |
| Rear Attachment Height | | | | High | 4 |
| Rear Attachment Width | | | | Wide | 3 |
| Rear Teat Placement | | | | Close | 2C |
| Teat Length | | | | Short | 2S |
| Foot Angle | | | | Low | 0 |
| Heel Depth | | | | Deep | 4 |
| Bone Quality | | | | Coarse | 0 |
| Rear Legs Side View | | | | Sickle | 1C |
| Rear Legs Rear View | | | | Straight | 3 |
| Stature | | | | Short | 0 |
| Chest Width | | | | Narrow | 0 |
| Body Depth | | | | Shallow | -6 |
| Dairy Capacity | | | | Angular | 4 |
| Loin Strength | | | | Strong | 1 |
| Rump Angle | | | | Sloped | 2L |
| Pin Width | | | | Narrow | -2 |



PROGENESIS DUKE MOLDAVITE
GRANDDAM



VIEUXSAULE FLAME
 CLAYNOOK DORINDA SNOWMAN VG-87-3YR-CAN 2*
 FLEVO GENETICS SNOWMAN
 OCD PLANET DIAMOND EX-92-3E-CAN 29*
 EISENADA TABOO PLANET
 MISS ELEGANT DELIGHT VG-88-2YR-USA DOM 3*



HAELZLE DENIM LAVA



HAELZLE DENIM LAVA



LEGACY DENIM GENNY

GLPI +3188 PRO\$ 2033

EX-92-CAN DPF RDF BLF BYF CVF HH1F HH2F HH3F HH4F HH5F HH6F HCDF
 Reg. #: HOCANM11993494 aAa: 342156 DMS: 234,345
 Born: 04/27/2014 Kappa Casein: AA Beta Casein: A2A2

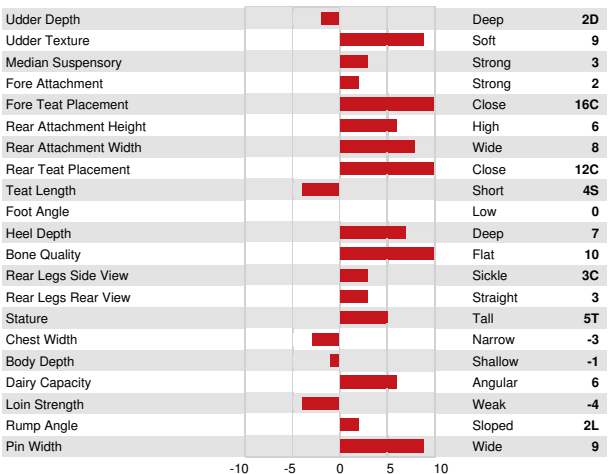
| PRODUCTION | 713 Herds | 972 Daughters | 99% Rel | GEBV 21* AUG | | | | | |
|--|-----------|---------------|---------|--------------|-------|------------|----|-----------|-------|
| Milk kg | 876 | Fat kg | 60 | Fat % | +0.23 | Protein kg | 42 | Protein % | +0.10 |
| Daughter Average (ME) Milk 12,404 kg Fat 503 kg Protein 406 kg | | | | | | | | | |

HEALTH & REPRODUCTION

| | | | |
|----------------------|-----|------------------------------|-----|
| Herd Life | 104 | Calving Ability | 102 |
| Somatic Cell Score | 106 | Daughter Calving Ability | 102 |
| Daughter Fertility | 106 | Milking Speed | 91 |
| Body Condition Score | 91 | Milking Temperament | 99 |
| Mastitis Resistance | 105 | Metabolic Disease Resistance | 100 |
| Feed Efficiency | 98 | | |

CONFORMATION

| CONFORMATION | 603 Herds | 872 Daughters | 97% Rel | GEBV 21* AUG | |
|----------------|-----------|----------------|---------|--------------|--|
| Conformation | 6 | Dairy Strength | 2 | | |
| Mammary System | 3 | Rump | 3 | | |
| Feet & Legs | 10 | GP or Better % | 71 | | |





ROCKYMOUNTAIN LOTTOMAX
 DE-SU MOGUL 2569 VG-87-3YR-USA
 MOUNTFIELD SSI DCY MOGUL
 DE-SU 385 VG-86-3YR-USA
 RONELEE TOYSTORY DOMAIN
 SULLY PLANET MONTANA EX-91-5YR-USA

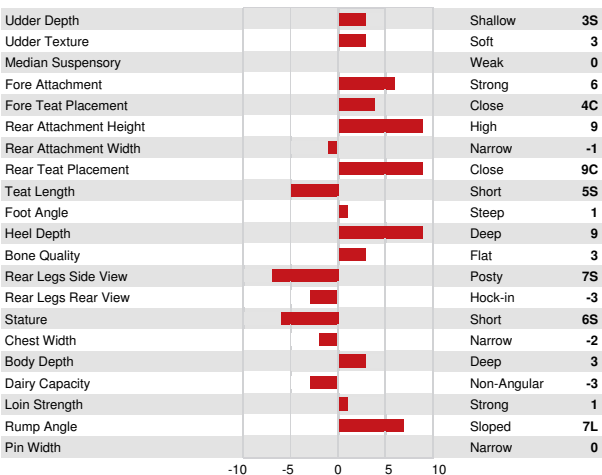
| | |
|---------------------|------------------------------------|
| GLPI +2857 | PRO\$ 1594 |
| DPF RDF BLF BYF CVF | HH1F HH2C HH3F HH4F HH5F HH6F HCDF |

Reg. #: H0840M3127335650 aAa: 312645 DMS: 135
 Born: 03/26/2015 Kappa Casein: AE Beta Casein: A1A1

| | | | | | |
|---|-----------|---------------|---------|---------------------|-------|
| PRODUCTION | 119 Herds | 274 Daughters | 96% Rel | GEBV 21* AUG | |
| Milk kg | 345 | Fat kg | 51 | Fat % | +0.33 |
| | | | | Protein kg | 1 |
| | | | | Protein % | -0.09 |
| Daughter Average (ME) Milk 12,402 kg Fat 512 kg Protein 396 kg | | | | | |

| | | | |
|----------------------------------|-----|------------------------------|-----|
| HEALTH & REPRODUCTION | | | |
| Herd Life | 105 | Calving Ability | 105 |
| Somatic Cell Score | 110 | Daughter Calving Ability | 108 |
| Daughter Fertility | 99 | Milking Speed | 107 |
| Body Condition Score | 102 | Milking Temperament | 100 |
| Mastitis Resistance | 109 | Metabolic Disease Resistance | 94 |
| Feed Efficiency | 109 | | |

| | | | | |
|---------------------|-----------|----------------|---------|---------------------|
| CONFORMATION | 105 Herds | 214 Daughters | 92% Rel | GEBV 21* AUG |
| Conformation | 6 | Dairy Strength | -2 | |
| Mammary System | 4 | Rump | 7 | |
| Feet & Legs | 7 | GP or Better % | 71 | |





COYNE-FARMS JACEY CRI
 CALI NUMERO UNO BERNICE VG-86-3YR-CAN
 AMIGHETTI NUMERO UNO
 BENNER PLANET BESSIE VG-85-2YR-CAN
 ENSENADA TABOO PLANET
 MAPEL WOOD BAXTER BETHANY VG-85-2YR-CAN 17*



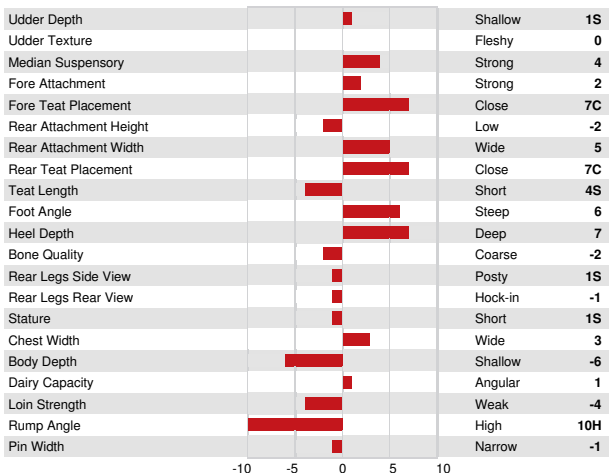
CALI NUMERO UNO BERNICE

Dam

| | | | |
|------------------------------|---------------------------------|------------------------------------|---|
| GLPI +3051 PRO\$ 2151 | | | |
| VG-CAN RDF BLF BYF CVF | | HH1F HH2F HH3F HH4F HH5F HH6F HCDF | |
| Reg. #: HOCANM108842490 | aAa: 462153 | DMS: 456 | |
| Born: 02/15/2014 | Kappa Casein: BE | Beta Casein: A1A1 | |
| PRODUCTION | 109 Herds 124 Daughters 95% Rel | GEBV 21* AUG | |
| Milk kg 592 | Fat kg 60 | Fat % +0.32 | Protein kg 44 |
| Daughter Average (ME) | | Milk 11,210 kg | Fat 468 kg Protein 376 kg |

| | | | |
|----------------------------------|------------|------------------------------|------------|
| HEALTH & REPRODUCTION | | | |
| Herd Life | 105 | Calving Ability | 101 |
| Somatic Cell Score | 110 | Daughter Calving Ability | 103 |
| Daughter Fertility | 109 | Milking Speed | 101 |
| Body Condition Score | 102 | Milking Temperament | 98 |
| Mastitis Resistance | 108 | Metabolic Disease Resistance | 101 |
| Feed Efficiency | 100 | | |

| | | | |
|---------------------|--------------------------------|---------------------|-----------|
| CONFORMATION | 90 Herds 107 Daughters 91% Rel | GEBV 21* AUG | |
| Conformation | 0 | Dairy Strength | 1 |
| Mammary System | 1 | Rump | -8 |
| Feet & Legs | 0 | GP or Better % | 52 |



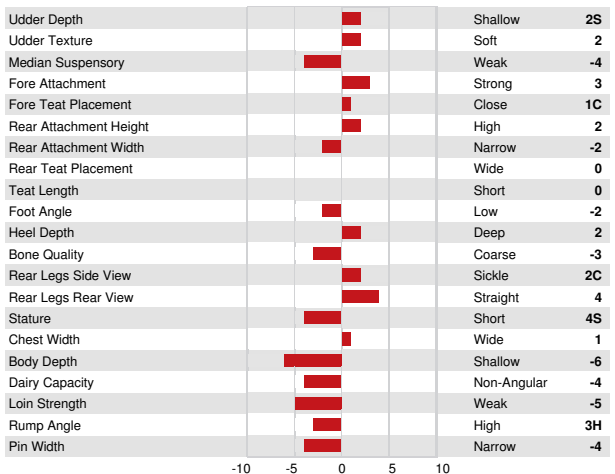


SEAGULL-BAY SILVER
 PEN-COL SS BUFFY
 SEAGULL-BAY SUPERSIRE
 PEN-COL GRAFETTI BELL VG-87-3YR-USA
 LADYS-MANOR RD GRAFEETI
 VISION-GEN SUPER BONNIE VG-86-2YR-USA DOM

| | | | |
|------------------------|--------|-------------------|-------------------|
| GMACE LPI +3205 | | PRO\$ 2646 | |
| RDF | BLF | BYF | CVF |
| Reg. #: HOUSAM74258436 | | aAa: 354126 | DMS: 345 |
| Born: 10/05/2015 | | Kappa Casein: BB | Beta Casein: A1A2 |
| PRODUCTION | | 49 Herds | 170 Daughters |
| | | 91% Rel | |
| | | GMACE 21* AUG | |
| Milk kg | Fat kg | Fat % | Protein kg |
| 737 | 84 | +0.49 | 56 |
| | | Protein % | |
| | | +0.29 | |

| | | | |
|----------------------------------|-----|------------------------------|-----|
| HEALTH & REPRODUCTION | | | |
| Herd Life | 107 | Calving Ability | 101 |
| Somatic Cell Score | 103 | Daughter Calving Ability | 108 |
| Daughter Fertility | 104 | Milking Speed | 104 |
| Body Condition Score | 105 | Milking Temperament | 99 |
| Mastitis Resistance | 103 | Metabolic Disease Resistance | 102 |
| Feed Efficiency | 100 | | |

| | | | | | |
|---------------------|---|----------------|--------------|---------|---------------|
| CONFORMATION | | 23 Herds | 64 Daughters | 87% Rel | GMACE 21* AUG |
| Conformation | 2 | Dairy Strength | | -3 | |
| Mammary System | 3 | Rump | | -4 | |
| Feet & Legs | 5 | | | | |





SILVERRIDGE V IMAX
 PINE-TREE 9882 PROF 7019 VG-86-4YR-USA
 S-S-1 PARTYROCK PROFIT
 OCD SUPERSIRE 9882 VG-86-2YR-USA DOM
 SEAGULL-BAY SUPERSIRE
 OCD ROBUST SHIMMER EX-90-2E-USA DOM



OCD SUPERSIRE 9882
 GRANDDAM

| GMACE LPI +3331 PRO\$ 2660 | |
|----------------------------|------------------------------------|
| DPF RDF BLF CNF BYF CVF | HH1F HH2F HH3F HH4F HH5F HH6F HCDF |
| Reg. #: HOCANM12857683 | aAa: 432516 DMS: 234 |
| Born: 08/03/2017 | Kappa Casein: AB Beta Casein: A1A2 |
| PRODUCTION | 29 Herds 90 Daughters 90% Rel |
| Milk kg 1722 | Fat kg 94 |
| | Fat % +0.22 |
| | Protein kg 86 |
| | Protein % +0.25 |

| HEALTH & REPRODUCTION | | | |
|-----------------------|------------|------------------------------|------------|
| Herd Life | 104 | Calving Ability | 103 |
| Somatic Cell Score | 104 | Daughter Calving Ability | 107 |
| Daughter Fertility | 101 | Milking Speed | 101 |
| Body Condition Score | 101 | Milking Temperament | 102 |
| Mastitis Resistance | 102 | Metabolic Disease Resistance | 98 |
| Feed Efficiency | 104 | | |

| CONFORMATION | G Herds | G Daughters | 81% Rel | GPA 22' APR |
|----------------|---------|-------------|----------------|-------------|
| Conformation | | 3 | Dairy Strength | 5 |
| Mammary System | | -1 | Rump | 3 |
| Feet & Legs | | 4 | | |

| | | | | | |
|------------------------|--|--|--|----------|-----------|
| Udder Depth | | | | Shallow | 2S |
| Udder Texture | | | | Fleshy | -1 |
| Median Suspensory | | | | Weak | 0 |
| Fore Attachment | | | | Loose | 0 |
| Fore Teat Placement | | | | Close | 2C |
| Rear Attachment Height | | | | High | 3 |
| Rear Attachment Width | | | | Wide | 3 |
| Rear Teat Placement | | | | Close | 4C |
| Teat Length | | | | Short | 3S |
| Foot Angle | | | | Low | -1 |
| Heel Depth | | | | Deep | 6 |
| Bone Quality | | | | Coarse | -4 |
| Rear Legs Side View | | | | Sickle | 2C |
| Rear Legs Rear View | | | | Straight | 2 |
| Stature | | | | Tall | 5T |
| Chest Width | | | | Wide | 8 |
| Body Depth | | | | Shallow | -1 |
| Dairy Capacity | | | | Angular | 4 |
| Loin Strength | | | | Weak | -1 |
| Rump Angle | | | | Sloped | 2L |
| Pin Width | | | | Wide | 7 |

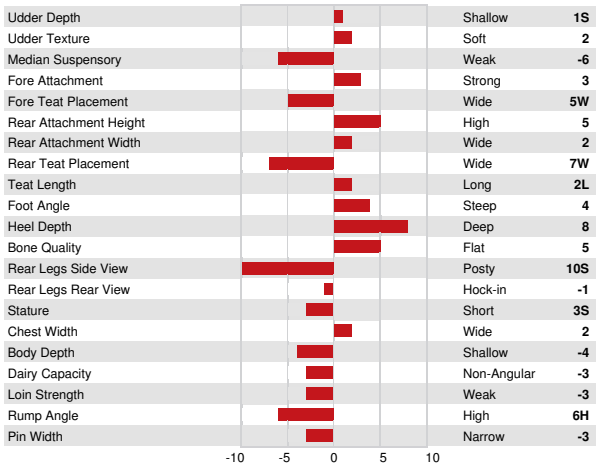


STANTONS DRAFTPICK
 PROGENESIS BOMBERO LUCY
 RICHMOND-FD EL BOMBERO
 CAR-J SUPERSIRE LILA VG-85-3YR-CAN
 SEAGULL-BAY SUPERSIRE
 CAR-J ATLANTIC LUCY VG-85-2YR-USA

| GMACE LPI +3112 PRO\$ 1923 | | | | |
|----------------------------|--------|------------------|------------------------------------|-------------------|
| DPF | RDF | BLF | BYF | CVF |
| | | | HH1F HH2F HH3F HH4F HH5F HH6F HCDF | |
| Reg. #: HOCANM12529229 | | aAa: 423651 | | DMS: 561 |
| Born: 04/27/2016 | | Kappa Casein: AA | | Beta Casein: A2A2 |
| PRODUCTION | | 33 Herds | 85 Daughters | 89% Rel |
| Milk kg | Fat kg | Fat % | Protein kg | Protein % |
| 611 | 65 | +0.36 | 49 | +0.24 |

| HEALTH & REPRODUCTION | | | |
|-----------------------|-----|------------------------------|-----|
| Herd Life | 104 | Calving Ability | 102 |
| Somatic Cell Score | 104 | Daughter Calving Ability | 102 |
| Daughter Fertility | 101 | Milking Speed | 102 |
| Body Condition Score | 106 | Milking Temperament | 97 |
| Mastitis Resistance | 104 | Metabolic Disease Resistance | 104 |
| Feed Efficiency | 106 | | |

| CONFORMATION | | | |
|----------------|---|----------------|--------------|
| | | 29 Herds | 57 Daughters |
| | | 84% Rel | |
| | | GMACE 22*APR | |
| Conformation | 2 | Dairy Strength | -2 |
| Mammary System | 4 | Rump | -5 |
| Feet & Legs | 3 | | |





MS LOOKOUT PESK BKM BRIA
FOURTH DAM



RALMA-RH MANOMAN BANJO
FIFTH DAM



PINE-TREE-I PURSUIT
PROGENESIS ROBSON BEYONCE GP-83-3YR-CAN
BOMAZ ROBSON
PROGENESIS SILVER BIONCA VG-85-3YR-CAN 3*
SEAGULL-BAY SILVER
PES009 SUPERSIRE BREANNE 2*

GPA LPI +3548 PRO\$ 3037

DPF RDF BLF CNF BYF CVF HH1F HH2F HH3F HH4F HH5F HH6F HCDF

Reg. #: HOCANM13353890 aAa: DMS:
Born: 05/28/2019 Kappa Casein: AE Beta Casein: A1A1

| PRODUCTION | G Herds | G Daughters | 81% Rel | GPA 22* APR | |
|------------|---------|-------------|---------|-------------|-----------|
| Milk kg | | Fat kg | Fat % | Protein kg | Protein % |
| 546 | | 109 | +0.76 | 64 | +0.39 |

HEALTH & REPRODUCTION

| | | | |
|----------------------|-----|------------------------------|-----|
| Herd Life | 105 | Calving Ability | 103 |
| Somatic Cell Score | 104 | Daughter Calving Ability | 110 |
| Daughter Fertility | 105 | Milking Speed | 105 |
| Body Condition Score | 105 | Milking Temperament | 102 |
| Mastitis Resistance | 103 | Metabolic Disease Resistance | 104 |
| Feed Efficiency | 108 | | |

CONFORMATION

| | G Herds | G Daughters | 78% Rel | GPA 22* APR |
|----------------|---------|-------------|----------------|-------------|
| Conformation | | 5 | Dairy Strength | 3 |
| Mammary System | | 3 | Rump | -1 |
| Feet & Legs | | 8 | | |

| | | | | | |
|------------------------|--|--|--|-------------|-----|
| Udder Depth | | | | Shallow | 3S |
| Udder Texture | | | | Fleshy | -2 |
| Median Suspensory | | | | Weak | -8 |
| Fore Attachment | | | | Strong | 4 |
| Fore Teat Placement | | | | Wide | 5W |
| Rear Attachment Height | | | | High | 3 |
| Rear Attachment Width | | | | Wide | 6 |
| Rear Teat Placement | | | | Wide | 10W |
| Teat Length | | | | Long | 3L |
| Foot Angle | | | | Low | 0 |
| Heel Depth | | | | Deep | 6 |
| Bone Quality | | | | Coarse | -3 |
| Rear Legs Side View | | | | Posty | 3S |
| Rear Legs Rear View | | | | Straight | 8 |
| Stature | | | | Tall | 1T |
| Chest Width | | | | Wide | 7 |
| Body Depth | | | | Shallow | -2 |
| Dairy Capacity | | | | Non-Angular | 0 |
| Loin Strength | | | | Weak | -2 |
| Rump Angle | | | | High | 5H |
| Pin Width | | | | Wide | 5 |



MORNINGVIEW MCC KINGBOY
 RODEMSAY SUPER SONIC 2*
 SEAGULL-BAY SUPERSIRE
 LILLY BLUE SNOWMAN SLINGSHOT GP-84-2YR-CAN
 FLEVO GENETICS SNOWMAN
 ARCADIA D LOU SOFIA VG-88-5YR-CAN 10*



ARCADIA D LOU SOFIA
 THIRD DAM



BELFAST M GOLDWYN SHELLY
 FOURTH DAM



MARYCLERC B CHAMPION SILVIA
 FIFTH DAM

| | | | | | |
|-----------------------------------|-----------------|---------------|------------------------------------|----------------------|---------|
| GMACE LPI +3132 PRO\$ 1812 | | | | | |
| DPF RDF BLF BYF CVF | | | HH1F HH2F HH3F HH4F HH5F HH6F HCDF | | |
| Reg. #: | HOCANM109393638 | aAa: | 342156 | DMS: | 234,123 |
| Born: | 09/19/2015 | Kappa Casein: | BB | Beta Casein: | A2A2 |
| PRODUCTION | 28 Herds | 59 Daughters | 91% Rel | GMACE 22* APR | |
| Milk kg | 1486 | Fat kg | 73 | Protein kg | 53 |
| | | Fat % | +0.12 | Protein % | +0.03 |

| | | | |
|----------------------------------|-----|------------------------------|-----|
| HEALTH & REPRODUCTION | | | |
| Herd Life | 100 | Calving Ability | 100 |
| Somatic Cell Score | 103 | Daughter Calving Ability | 106 |
| Daughter Fertility | 100 | Milking Speed | 93 |
| Body Condition Score | 98 | Milking Temperament | 97 |
| Mastitis Resistance | 101 | Metabolic Disease Resistance | 99 |
| Feed Efficiency | 102 | | |

| | | | | |
|---------------------|----------|----------------|---------|----------------------|
| CONFORMATION | | | | |
| | 23 Herds | 44 Daughters | 87% Rel | GMACE 22* APR |
| Conformation | 6 | Dairy Strength | 7 | |
| Mammary System | 6 | Rump | 0 | |
| Feet & Legs | 1 | | | |

| | | | | | |
|------------------------|--|--|--|---------|----|
| Udder Depth | | | | Deep | 2D |
| Udder Texture | | | | Soft | 2 |
| Median Suspensory | | | | Strong | 2 |
| Fore Attachment | | | | Strong | 3 |
| Fore Teat Placement | | | | Wide | 0 |
| Rear Attachment Height | | | | High | 6 |
| Rear Attachment Width | | | | Wide | 9 |
| Rear Teat Placement | | | | Wide | 1W |
| Teat Length | | | | Long | 5L |
| Foot Angle | | | | Steep | 2 |
| Heel Depth | | | | Deep | 5 |
| Bone Quality | | | | Flat | 1 |
| Rear Legs Side View | | | | Posty | 0 |
| Rear Legs Rear View | | | | Hock-in | 0 |
| Stature | | | | Tall | 3T |
| Chest Width | | | | Wide | 6 |
| Body Depth | | | | Deep | 4 |
| Dairy Capacity | | | | Angular | 5 |
| Loin Strength | | | | Weak | 0 |
| Rump Angle | | | | High | 5H |
| Pin Width | | | | Wide | 5 |



SILVERRIDGE V IMAX
 PINE-TREE JEDI 9882FARIA 2'
 S-S-I MONTROSS JEDI
 OCD SUPERSIRE 9882 VG-86-2YR-USA DOM
 SEAGULL-BAY SUPERSIRE
 OCD ROBUST SHIMMER EX-90-2E-USA DOM



OCD SUPERSIRE 9882
 GRANDDAM

| | | | | | | | | | | | | |
|--------------------------------|---------|------------------|---------|-------------------|-----------|------|------------|------|------|------|------|------|
| GPA LPI +3140 PROS 2129 | | | | | | | | | | | | |
| DPF | RDF | BLF | CNF | BYF | CVF | HH1F | HH2F | HH3F | HH4F | HH5F | HH6F | HCDF |
| Reg. #: HOCANM12754671 | | aAa: 435126 | | DMS: 234 | | | | | | | | |
| Born: 09/11/2017 | | Kappa Casein: AB | | Beta Casein: A1A1 | | | | | | | | |
| PRODUCTION | G Herds | G Daughters | 85% Rel | | | | GPA 22"APR | | | | | |
| Milk kg | | Fat kg | Fat % | Protein kg | Protein % | | | | | | | |
| 1635 | | 78 | +0.13 | 66 | +0.10 | | | | | | | |

| | | | |
|----------------------------------|-----|------------------------------|-----|
| HEALTH & REPRODUCTION | | | |
| Herd Life | 103 | Calving Ability | 104 |
| Somatic Cell Score | 102 | Daughter Calving Ability | 106 |
| Daughter Fertility | 103 | Milking Speed | 101 |
| Body Condition Score | 103 | Milking Temperament | 102 |
| Mastitis Resistance | 101 | Metabolic Disease Resistance | 97 |
| Feed Efficiency | 102 | | |

| | | | | | |
|---------------------|---|---------|-------------|----------------|------------|
| CONFORMATION | | G Herds | G Daughters | 82% Rel | GPA 22"APR |
| Conformation | 1 | | | Dairy Strength | 3 |
| Mammary System | 0 | | | Rump | 0 |
| Feet & Legs | 0 | | | | |

| | | | | | |
|------------------------|--|--|--|-------------|----|
| Udder Depth | | | | Shallow | 4S |
| Udder Texture | | | | Fleshy | -1 |
| Median Suspensory | | | | Weak | -3 |
| Fore Attachment | | | | Strong | 2 |
| Fore Teat Placement | | | | Wide | 4W |
| Rear Attachment Height | | | | High | 2 |
| Rear Attachment Width | | | | Wide | 3 |
| Rear Teat Placement | | | | Wide | 2W |
| Teat Length | | | | Short | 7S |
| Foot Angle | | | | Low | -4 |
| Heel Depth | | | | Deep | 4 |
| Bone Quality | | | | Coarse | -4 |
| Rear Legs Side View | | | | Posty | 0 |
| Rear Legs Rear View | | | | Hock-in | -2 |
| Stature | | | | Short | 0 |
| Chest Width | | | | Wide | 7 |
| Body Depth | | | | Shallow | -2 |
| Dairy Capacity | | | | Non-Angular | 0 |
| Loin Strength | | | | Weak | -6 |
| Rump Angle | | | | High | 0 |
| Pin Width | | | | Wide | 6 |



DES COTEAUX REVOLUTION
 DUO STAR AMITIE EX-90-7YR-CAN
 KILDARE PERCY
 DUO STAR AMOUR EX-94-7YR-CAN
 MARGOT CALIMERO
 LACHUTE ROAD H S SALEM VG-89-6YR-CAN



LA CROISEE AMAZING FLICKA



LA CROISEE AMAZING FLICKA



LA CROISEE AMAZING FLICKA

| | | | | |
|-------------------------|------------------|-------------------|-----------|--|
| GLPI +2990 | | | AHTC AH2C | |
| VG TF | | | | |
| Reg. #: AYCANM109850586 | aAa: 342516 | DMS: 234,345 | | |
| Born: 01/27/2016 | Kappa Casein: AA | Beta Casein: A1A2 | | |

| | | | | | |
|---|-----------|---------------|------------|--------------|--|
| PRODUCTION | 106 Herds | 301 Daughters | 97% Rel | GEBV 21* AUG | |
| Milk kg | Fat kg | Fat % | Protein kg | Protein % | |
| 1204 | 65 | +0.19 | 54 | +0.15 | |
| Daughter Average (ME) Milk 9,949 kg Fat 412 kg Protein 348 kg | | | | | |

| | | | |
|----------------------------------|-----|------------------------------|-----|
| HEALTH & REPRODUCTION | | | |
| Herd Life | 102 | Calving Ability | 108 |
| Somatic Cell Score | 103 | Daughter Calving Ability | 107 |
| Daughter Fertility | 100 | Milking Speed | 97 |
| Body Condition Score | 99 | Milking Temperament | 96 |
| Mastitis Resistance | 104 | Metabolic Disease Resistance | 100 |

| | | | | |
|---------------------|----------|----------------|---------|--------------|
| CONFORMATION | 85 Herds | 224 Daughters | 92% Rel | GEBV 21* AUG |
| Conformation | 6 | Dairy Strength | 0 | |
| Mammary System | 7 | Rump | -3 | |
| Feet & Legs | 7 | GP or Better % | 69 | |

| | | | | |
|------------------------|--|--|---------|----|
| Udder Depth | | | Shallow | 1S |
| Udder Texture | | | Soft | 7 |
| Median Suspensory | | | Strong | 9 |
| Fore Attachment | | | Strong | 1 |
| Fore Teat Placement | | | Wide | 5W |
| Rear Attachment Height | | | High | 4 |
| Rear Attachment Width | | | Wide | 1 |
| Rear Teat Placement | | | Wide | 6W |
| Teat Length | | | Long | 4L |
| Foot Angle | | | Steep | 7 |
| Heel Depth | | | Deep | 8 |
| Bone Quality | | | Flat | 3 |
| Rear Legs Side View | | | Posty | 0 |
| Rear Legs Rear View | | | Hock-in | -3 |
| Stature | | | Short | 8S |
| Chest Width | | | Narrow | -3 |
| Body Depth | | | Shallow | -1 |
| Dairy Capacity | | | Angular | 4 |
| Loin Strength | | | Strong | 1 |
| Rump Angle | | | Sloped | 3L |
| Pin Width | | | Narrow | -7 |



MARGOT CHOCOLATE
DAM

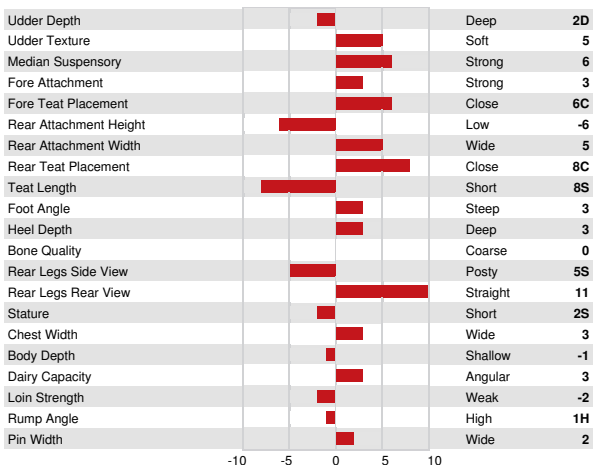


DES COTEAUX REVOLUTION
 MARGOT CHOCOLATE VG-87-4YR-CAN
 JELYCA OBLIQUE
 MARGOT CHARADE EX-90-5YR-CAN
 PETERSLUND
 MARGOT CHAMPIONNE EX-90-12YR-CAN

| | | | | |
|--|---------------------|-----------------------|-------------------------|---------------------------|
| GLPI +2783 | | | | |
| TF AMF | | | AH1F AH2F AHCF | |
| Reg. #: AYCANN109685370 | aAa: 312456 | DMS: 345,135 | | |
| Born: 01/10/2016 | Kappa Casein: AB | Beta Casein: A2A2 | | |
| PRODUCTION | 74 Herds | 150 Daughters | 95% Rel | GEBV 22*APR |
| Milk kg 444 | Fat kg 36 | Fat % +0.23 | Protein kg 29 | Protein % +0.16 |
| Daughter Average (ME) Milk 9,544 kg Fat 399 kg Protein 333 kg | | | | |

| HEALTH & REPRODUCTION | | | |
|----------------------------------|------------|------------------------------|------------|
| Herd Life | 106 | Calving Ability | 106 |
| Somatic Cell Score | 100 | Daughter Calving Ability | 107 |
| Daughter Fertility | 101 | Milking Speed | 102 |
| Body Condition Score | 100 | Milking Temperament | 100 |
| Mastitis Resistance | 100 | Metabolic Disease Resistance | 100 |

| CONFORMATION | | | |
|---------------------|---------------|----------------|-------------|
| 58 Herds | 121 Daughters | 88% Rel | GEBV 22*APR |
| Conformation | 3 | Dairy Strength | 1 |
| Mammary System | 2 | Rump | 2 |
| Feet & Legs | 4 | GP or Better % | 72 |





KELLCREST RIESLING
 HAUTPRE REALITY MADYSTAR GP-81-3YR-CAN
 PALMYRA TRI-STAR REALITY
 HAUTPRE PETERSLUND MADERA VG-87-4YR-CAN
 PETERSLUND
 LAGACE JERRY MOODY EX-90-8YR-CAN

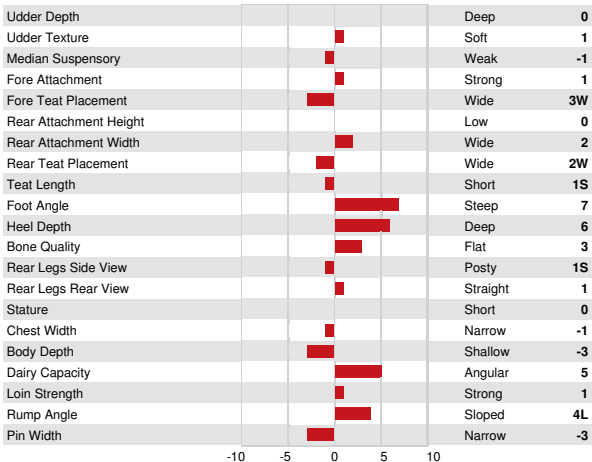


HAUTPRE PETERSLUND MADERA
 GRANDDAM

| | | | | |
|-------------------------|------------------|-------------|-------------------|--------------|
| GPA LPI +2612 | | | | |
| AMF | | | AH1F AH2F AHCF | |
| Reg. #: AYCANN109814144 | aAa: 135264 | | DMS: 345,456 | |
| Born: 07/23/2016 | Kappa Casein: AA | | Beta Casein: A2A2 | |
| PRODUCTION | G Herds | G Daughters | 64% Rel | GPA 22*APR |
| Milk kg | | Fat kg | Fat % | Protein kg |
| 357 | | 23 | +0.11 | 19 |
| | | | | Protein % |
| | | | | +0.10 |

| | | | |
|----------------------------------|------------|------------------------------|------------|
| HEALTH & REPRODUCTION | | | |
| Herd Life | 104 | Calving Ability | 102 |
| Somatic Cell Score | 103 | Daughter Calving Ability | 101 |
| Daughter Fertility | 104 | Milking Speed | 100 |
| Body Condition Score | 99 | Milking Temperament | 98 |
| Mastitis Resistance | 103 | Metabolic Disease Resistance | 101 |

| | | | |
|---------------------|-------------|----------------|------------|
| CONFORMATION | | | |
| G Herds | G Daughters | 54% Rel | GPA 22*APR |
| Conformation | 2 | Dairy Strength | 0 |
| Mammary System | 0 | Rump | -1 |
| Feet & Legs | 5 | | |





R FACET
 DES COTEAUX MORDICUS ROSÀ E EX-91-6YR-CAN
 LAGACE MORDICUS
 KAMOURASKA POKER RUBIS EX-91-6YR-CAN
 DES CHAMOIS POKER
 KAMOURASKA PETERSLUND RUBYÅ VG-87-3YR-CAN



LAGACE RAFTING BIANNA

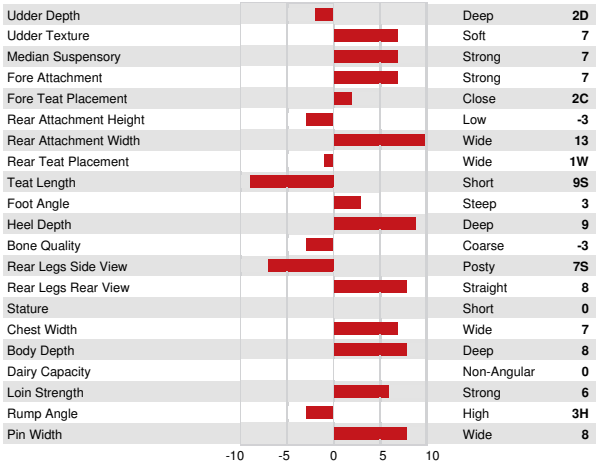
GLPI +2584
 VG TF AMC AH1F AH2F AHCC

Reg. #: AYCANN109670397 aAa: 213465 DMS: 246
 Born: 08/06/2015 Kappa Casein: AA Beta Casein: A2A2

| PRODUCTION | 56 Herds | 106 Daughters | 93% Rel | GEBV 22' APR | |
|---|----------|---------------|---------|--------------|-------|
| Milk kg | 280 | Fat kg | 8 | Fat % | -0.05 |
| | | | | Protein kg | 15 |
| | | | | Protein % | +0.06 |
| Daughter Average (ME) Milk 9,428 kg Fat 382 kg Protein 326 kg | | | | | |

| HEALTH & REPRODUCTION | | | |
|-----------------------|-----|------------------------------|-----|
| Herd Life | 105 | Calving Ability | 103 |
| Somatic Cell Score | 104 | Daughter Calving Ability | 100 |
| Daughter Fertility | 99 | Milking Speed | 104 |
| Body Condition Score | 103 | Milking Temperament | 97 |
| Mastitis Resistance | 104 | Metabolic Disease Resistance | 99 |

| CONFORMATION | 57 Herds | 106 Daughters | 86% Rel | GEBV 22' APR | |
|----------------|----------|----------------|---------|--------------|--|
| Conformation | 7 | Dairy Strength | 6 | | |
| Mammary System | 6 | Rump | 9 | | |
| Feet & Legs | 4 | GP or Better % | 72 | | |





LESSARD JUMPER
 KAMOURASKA POKER RUBIS VG-86-4YR-CAN
 DES CHAMOIS POKER
 KAMOURASKA PETERSLUND RUBY VG-87-3YR-CAN
 PETERSLUND
 KAMOURASKA JERRY VIRVANA EX-90-5YR-CAN



MONEY MAKING RUBICOM MANGUEL



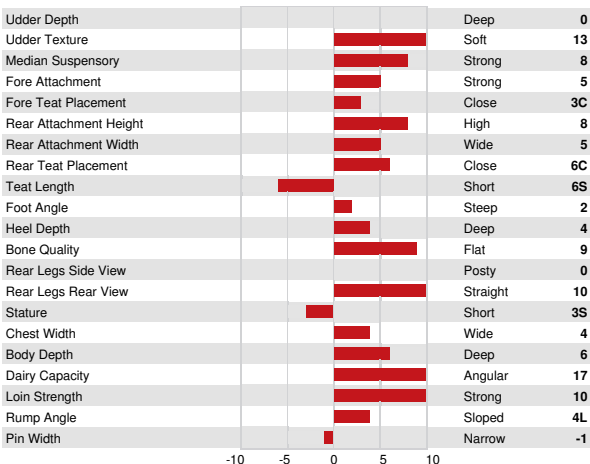
CADRIJO RUBICOM MAMZELL

| | | | |
|-------------------------|------------------|-------------------|--|
| GLPI +2836 | | AH1F AH2C AHCF | |
| AMF | | | |
| Reg. #: AYCANN109287246 | aAa: 213645 | DMS: 234,123 | |
| Born: 02/08/2015 | Kappa Casein: AA | Beta Casein: A1A2 | |

| PRODUCTION | 113 Herds | 225 Daughters | 97% Rel | GEBV 22*APR | |
|--|-----------|---------------|---------|-------------|-------|
| Milk kg | 1025 | Fat kg | 23 | Fat % | -0.24 |
| | | Protein kg | 30 | Protein % | -0.05 |
| Daughter Average (ME) Milk 9,966 kg Fat 395 kg Protein 338 kg | | | | | |

| HEALTH & REPRODUCTION | | | |
|-----------------------|-----|------------------------------|-----|
| Herd Life | 108 | Calving Ability | 108 |
| Somatic Cell Score | 101 | Daughter Calving Ability | 99 |
| Daughter Fertility | 97 | Milking Speed | 103 |
| Body Condition Score | 89 | Milking Temperament | 91 |
| Mastitis Resistance | 101 | Metabolic Disease Resistance | 98 |

| CONFORMATION | | | |
|----------------|---------------|----------------|-------------|
| 104 Herds | 207 Daughters | 92% Rel | GEBV 22*APR |
| Conformation | 12 | Dairy Strength | 13 |
| Mammary System | 9 | Rump | 6 |
| Feet & Legs | 12 | GP or Better % | 82 |



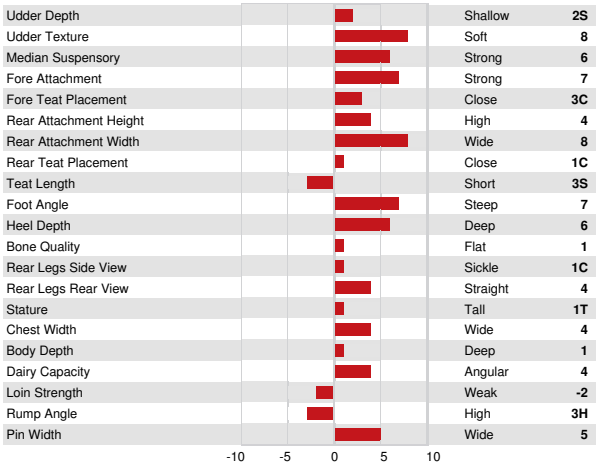


KAMOURASKA RENOIR
 PIE X YALE MEOW VG-85-3YR-CAN
 GUIMOND YALE
 PIE X ROCKSTAR MINOU EX-90-5YR-CAN
 KAMOURASKA ROCKSTAR
 PIE X OBLIQUE POUPOUNE GD-76-2YR-CAN

| | | | | |
|-------------------------|---------|------------------|--------------|-------------------|
| GPA LPI +2879 | | | | |
| TF AMF | | | | AH1F AH2F |
| Reg. #: AYCANN120098726 | | aAa: | | DMS: |
| Born: 10/03/2019 | | Kappa Casein: AE | | Beta Casein: A1A2 |
| PRODUCTION | G Herds | G Daughters | 51% Rel | GPA 21* AUG |
| Milk kg | | Fat kg | Fat % | Protein kg |
| 1025 | | 40 | -0.02 | 41 |
| | | | | Protein % |
| | | | | +0.07 |

| | | | |
|----------------------------------|------------|------------------------------|------------|
| HEALTH & REPRODUCTION | | | |
| Herd Life | 105 | Calving Ability | 98 |
| Somatic Cell Score | 100 | Daughter Calving Ability | 105 |
| Daughter Fertility | 99 | Milking Speed | 100 |
| Body Condition Score | 99 | Milking Temperament | 101 |
| Mastitis Resistance | 100 | Metabolic Disease Resistance | 101 |

| | | | |
|---------------------|---------|-------------|----------------|
| CONFORMATION | | | |
| | G Herds | G Daughters | 39% Rel |
| Conformation | | 8 | Dairy Strength |
| Mammary System | | 8 | Rump |
| Feet & Legs | | 5 | |
| | | | GPA 21* AUG |
| | | | 5 |





GENIAL SITUATION

KAMOURASKA JUPI UBY VG-86-3YR-CAN
 KILDARE JUPITER
 KAMOURASKA PETERSLUND RUBY VG-87-3YR-CAN
 PETERSLUND
 KAMOURASKA JERRY VIRVANA EX-90-5YR-CAN



KAMOURASKA JUPI UBY
DAM

GLPI +2800

Reg. #: AYCANN108287094 aAa: DMS:
 Born: 09/02/2013 Kappa Casein: AE Beta Casein:

| PRODUCTION | 61 Herds | 105 Daughters | 94% Rel | GEBV 21* AUG | |
|--|----------|---------------|--------------|--------------|-------------|
| Milk kg | | Fat kg | Fat % | Protein kg | Protein % |
| 686 | | 27 | -0.02 | 24 | 0.00 |
| Daughter Average (ME) Milk 9,491 kg Fat 382 kg Protein 323 kg | | | | | |

HEALTH & REPRODUCTION

| | | | |
|----------------------|------------|------------------------------|------------|
| Herd Life | 105 | Calving Ability | 104 |
| Somatic Cell Score | 101 | Daughter Calving Ability | 101 |
| Daughter Fertility | 101 | Milking Speed | 102 |
| Body Condition Score | 93 | Milking Temperament | 97 |
| Mastitis Resistance | 102 | Metabolic Disease Resistance | 99 |

CONFORMATION

| | 56 Herds | 100 Daughters | 86% Rel | GEBV 21* AUG |
|----------------|----------|---------------|----------------|--------------|
| Conformation | | 10 | Dairy Strength | 8 |
| Mammary System | | 8 | Rump | 1 |
| Feet & Legs | | 11 | GP or Better % | 75 |

| | | | | |
|------------------------|--|--|----------|-----------|
| Udder Depth | | | Deep | 3D |
| Udder Texture | | | Soft | 6 |
| Median Suspensory | | | Strong | 10 |
| Fore Attachment | | | Strong | 7 |
| Fore Teat Placement | | | Close | 3C |
| Rear Attachment Height | | | High | 3 |
| Rear Attachment Width | | | Wide | 8 |
| Rear Teat Placement | | | Close | 1C |
| Teat Length | | | Short | 5S |
| Foot Angle | | | Steep | 5 |
| Heel Depth | | | Deep | 7 |
| Bone Quality | | | Flat | 8 |
| Rear Legs Side View | | | Sickle | 2C |
| Rear Legs Rear View | | | Straight | 9 |
| Stature | | | Tall | 1T |
| Chest Width | | | Wide | 2 |
| Body Depth | | | Deep | 3 |
| Dairy Capacity | | | Angular | 12 |
| Loin Strength | | | Strong | 1 |
| Rump Angle | | | High | 4H |
| Pin Width | | | Wide | 1 |



STEINHAUERS SAMSON LEMONHEAD
 GOFF PHAROAH CIRCUS ACT EX-90%-3YR-USA
 AHLEM HEADLINE PHAROAH 21795
 GOFF VALENTINO 9595 VG-84%-4YR-USA
 ALL LYNNS LOUIE VALENTINO
 GOFF ACTION CHARLOTTE EX-90%-3YR-USA



GLPI +1620 PRO\$ 1386 JH1 F JNSF

Reg. #: JEUSAM75341001 aAa: 126435 DMS: 561,126
 Born: 10/12/2015 Kappa Casein: BB Beta Casein: A2A2

| PRODUCTION | 79 Herds | 140 Daughters | 94% Rel | GEBV 21 *AUG | |
|------------|----------|---------------|---------|--------------|-------|
| Milk kg | 665 | Fat kg | 35 | Protein kg | 19 |
| | | Fat % | 0.00 | Protein % | -0.09 |

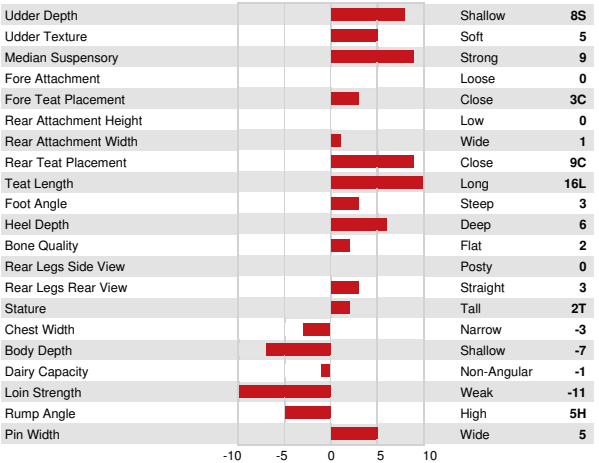
Daughter Average (ME) Milk 8,800 kg Fat 450 kg Protein 336 kg

HEALTH & REPRODUCTION

| | | | |
|----------------------|-----|------------------------------|-----|
| Herd Life | 104 | Calving Ability | 100 |
| Somatic Cell Score | 103 | Daughter Calving Ability | 113 |
| Daughter Fertility | 100 | Milking Speed | 106 |
| Body Condition Score | 100 | Milking Temperament | 107 |
| Mastitis Resistance | 103 | Metabolic Disease Resistance | 99 |

CONFORMATION

| CONFORMATION | 64 Herds | 99 Daughters | 86% Rel | GEBV 21 *AUG |
|----------------|----------|----------------|---------|--------------|
| Conformation | 3 | Dairy Strength | -6 | |
| Mammary System | 7 | Rump | -10 | |
| Feet & Legs | 3 | GP or Better % | 75 | |



PROGENESIS CRAZE CORD (6)
 DAUGHTER



PROGENESIS CRAZE CORD (6)
 DAUGHTER



RIVER VALLEY CIRCUS CRAZE DAUGHTERS
 L to R - AHLEM CRAZE AUTUMN 52313, AHLEM CRAZE MARIE 52311,
 FOREST CRAZE FRANCINE



SHILOH BROOKINGS CADENCE
 SHADY LANE SWISS BRKNGS ALPHA
 R N R PAYOFF BROOKINGS
 SHADY LANE SWISS SUP ALLRIGHT
 OLD MILL WDE SUPREME
 ELM PARK COGNAC N' AMARETO



SHADY LANE SWISS BRKNGS ALPHA
 DAM



SHADY LANE SWISS BRKNGS ALPHA
 DAM



SHADY LANE SWISS SUP ALLRIGHT
 GRANDDAM

| | | | | | |
|----------------------|-----------------|---------------|--------|--------------|------|
| GPA LPI +1929 | | | BH2F | | |
| Reg. #: | BSCANM109736195 | aAa: | 621453 | DMS: | 246 |
| Born: | 10/31/2016 | Kappa Casein: | BB | Beta Casein: | A2A2 |

| PRODUCTION | | | | | GPA 21* AUG |
|-------------------|--------|-------|------------|-----------|-------------|
| Milk kg | Fat kg | Fat % | Protein kg | Protein % | |
| 684 | 24 | -0.07 | 32 | +0.06 | |

| HEALTH & REPRODUCTION | | | |
|----------------------------------|-----|--------------------------|-----|
| Herd Life | 111 | Calving Ability | 104 |
| Somatic Cell Score | 105 | Daughter Calving Ability | 103 |
| Daughter Fertility | 102 | Milking Speed | 104 |
| Body Condition Score | 105 | Milking Temperament | 103 |

| CONFORMATION | | | |
|---------------------|----|----------------|---|
| Conformation | 10 | Dairy Strength | 4 |
| Mammary System | 10 | Rump | 7 |
| Feet & Legs | 10 | | |

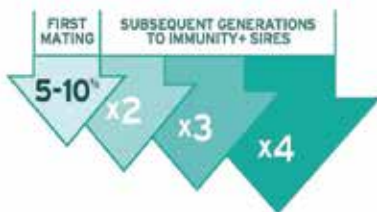
| | | | | |
|------------------------|--|--|-------------|----|
| Udder Depth | | | Shallow | 3S |
| Udder Texture | | | Soft | 3 |
| Median Suspensory | | | Strong | 5 |
| Fore Attachment | | | Strong | 9 |
| Fore Teat Placement | | | Wide | 4W |
| Rear Attachment Height | | | High | 6 |
| Rear Attachment Width | | | Wide | 5 |
| Rear Teat Placement | | | Wide | 4W |
| Teat Length | | | Short | 4S |
| Foot Angle | | | Low | 0 |
| Heel Depth | | | Shallow | 0 |
| Bone Quality | | | Coarse | 0 |
| Rear Legs Side View | | | Posty | 3S |
| Rear Legs Rear View | | | Straight | 7 |
| Stature | | | Short | 4S |
| Chest Width | | | Wide | 5 |
| Body Depth | | | Deep | 3 |
| Dairy Capacity | | | Non-Angular | -2 |
| Loin Strength | | | Strong | 5 |
| Rump Angle | | | High | 3H |
| Pin Width | | | Narrow | 0 |



High immunity passed from parent to progeny at rates exceeding all health/fitness traits

30%
heritable

DISEASE RESISTANCE
LESS DISEASE
FOR EACH GENERATION



DAUGHTERS HAVE:



Higher Quality Colostrum

High Immune cows have significantly more total immunoglobulin and beta-lactoglobulin in colostrum. *Doolittle et al 2014*



Greater Response to Commercial Vaccines

Miller et al 2016



High Immunity = Better Health = Higher Fertility



Higher semen fertility

+0.4 higher SCR than other bulls *COB proof data April 2014*



2.5% higher 56-day non-return rates as cows

COB Fertility Measurement Data April 2014

IMMUNE RESPONSE HAS +0.5 - +0.7 GENETIC CORRELATION WITH HEALTH/FITNESS TRAITS*



**Product Life Cycle 2016*

The Best Way to Fight Disease

THE SEMEX DIFFERENCE



The only company offering immune genetics for greater disease resistance.



Reliability & Value



Reliability & Value



- **Acaricides**
- **Dewormers**
- **Antiprotozoal**
- **Injectables**
- **Animal Mineral Supplements**
- **Imported Bull Semen**

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Email:- info@twiga-chem.com Website:- www.twigachemicals.com



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