



**BELVIEW**  
BRANGUS

40<sup>th</sup> Anniversary Sale 16.06.2023  
Scan Technician Roger Evans  
Veterinarian: Dr Mathew Verri  
Vet Morphology: Dr Gregory Powell

Supplementary Information Sheet  
Scan & weigh 27.04.23  
Accredited VBBSE Veterinarian  
Accredited VBBSE + morphologist

LOT	ID	AGE MTHS	WGT KG 27.04.23	P8 FAT	RIB FAT	EMA	IMF	SS cm	Motility/ Morph % 05/05/23	Motility/ Morph % 01/06/23	Notes
01	S105	24	698	11	7	113	5.2	41	66/84		☑
02	S029	28	722	13	8	120	5	39	66/91		☑
03	S091	24	812	10	7	130	5	43	75/58	75/70	☑
04	S092	24	776	14	7	123	6.3	39	66/54	66/61	×
05	S083	24	810	13	7	126	6.4	42	66/27	75/35	×
06	S116	21	710	10	6	118	5.7	39	75/49	75/68	☑
07	S115	21	764	12	6	116	4.7	43	75/85		☑
08	S093	24	WITHDRAWN								
09	S106	23	740	6	4	117	5.1	39	75/78		☑
10	S089	21	724	12	7	117	5.3	37	75/77		☑
11	SY034	24	752	4	4	119	5	39	75/22	75/64	QP
12	SY017	24	768	9	5	120	5.7	40	80/87		☑
13	SY024	24	800	15	8	130	6.6	38	75/85		☑
14	SY025	24	746	19	10	120	6.5	38	80/79		☑
15	SY032	24	WITHDRAWN								
16	SY031	24	732	6	4	112	5.2	39	75/82		☑
17	SY039	24	WITHDRAWN								
18	SY018	24	WITHDRAWN								
19	SY064	20	704	9	5	113	5.5	41	75/83		☑
20	SY065	21	640	7	5	109	4.9	40	66/91		☑
21	SY069	21	722	9	6	120	5.8	37	75/68		☑
22	T013	16	522	9	6	95	5.7	38	50/48	66/41	×
23	T082	16	524	9	5	93	4.4	39	66/48	66/55	×
24	T100	16	570	8	5	100	4.9	38	75/66		☑
25	T021	16	514	7	5	90	5.3	38	60/48	75/48	×
26	T074	15	463	7	4	84	4.6	35	66/71		☑
27	T036	15	574	10	6	98	4.7	38	66/57		QP
28	T068	16	550	9	6	94	5.4	36	75/92		☑
29	T024	15	496	10	6	88	5.1	38	50/3	40/23	WITHDRAWN
30	T050	16	560	10	6	93	4.6	35	75/51	75/58	*QP×
31	T076	15	500	6	5	86	4.9	35	75/60	75/57	QP
32	S173	22	750	12	6	119	5.1	42	80/95		☑
33	S175	22	700	5	8	115	6.2	39	75/79		☑
34	S174	21	696	5	6	114	5.3	39	66/75		☑



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35	S109	24	744	8	4	116	5.5	42	80/89		☑	
36	S108	24	718	5	4	118	4.8	39	80/78		☑	
37	S155	21	WITHDRAWN									
38	S157	21	648	7	5	110	5.1	36	75/77		☑	
39	S163	21	604	13	7	106	4.9	40	66/67		☑	
40	S164	22	722	12	7	115	6.1	43	75/75		*QP ☑	
41	S145	21	678	9	5	108	5	44	66/88		☑	
42	S147	20	664	9	5	114	5.4	42	66/79		☑	
43	S086	20	WITHDRAWN									
44	S185	20	WITHDRAWN									
45	S186	20	624	5	3	106	4.5	42	80/48	80/72	☑	
46	S156	21	702	6	5	120	4.9	41	75/89		☑	
47	S141	21	700	13	7	114	5.3	42	66/55	66/59	QP	
48	S113	23	696	6	4	119	4.7	43	75/22	50/22	WITHDRAWN	
49	S137	20	638	10	6	114	5.5	36	absent	75/71	☑	
50	S135	21	668	9	5	111	4.6	42	66/59	66/75	☑	
51	S132	21	614	7	6	108	5	36	66/70		☑	
52	S133	22	676	7	5	111	4.6	36	66/65	75/74	☑	
53	S154	21	WITHDRAWN									
									HEIFERS	Vet	Scan	
54	T019	16	469	8	5	74	6.9	-	NAD	NDP	☑	
55	T057	15	423	10	5	73	6.1	-	NAD	NDP	☑	
56	T063	16	433	5	8	76	6.7	-	NAD	NDP	☑	
57	T060	16	508	14	8	76	7.2	-	NAD	NDP	☑	
58	T093	16	481	10	7	84	5.4	-	NAD	NDP	☑	
59	T083	16	462	17	8	70	7.3	-	NAD	NDP	☑	
60	T212	11	372	12	6	59	5.8	-	NAD	NDP	☑	
61	T217	11	382	10	6	67	5.1	-	NAD	NDP	☑	
62	T188	12	355	8	5	61	6.4	-	NAD	NDP	☑	
63	T150	10	335	8	4	63	5.6	-	NAD	NDP	☑	
64	T164	11	347	6	4	63	5.1	-	NAD	NDP	☑	
65	T169	11	389	10	7	69	6	-	NAD	NDP	☑	
									BULLS			
66	T003	16	530	6	4	92	4.5	36	75/72		☑	
67	T026	16	476	12	7	90	5.7	36	75/75		☑	
68	T028	16	560	8	6	91	5.4	40	66/62	66/86	☑	

**HEIFER KEY:** Heifers have been scanned and checked by the Dr Mathew Verri of the Inverell Vet Clinic.



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They are physically sound, anatomically and reproductively normal (**NAD = No abnormality detected**) on scanning and not detectably pregnant (**NDP**) by ultrasound. Certificates provided by request

### **\*NOTES ON SEMEN TESTING and RESULTS \***

Everything offered in the sale has passed crush-side (motility) and physical veterinary exams.

See the notes below for details on Bulls that have an QP, × or \* on their table

= Pass on morphology (bulls) and physical and reproductive soundness (heifers)

**QP** = Qualified Pass on Morphology

× = fail on morphology only

\* = a note on physical exam

**\*QP** = qualified pass on physical

As a guideline:

- Bulls with a tick have passed on a testing day and deemed suitable for AI and single sire mating
- Multiple sire mate qualified passes and those that have not quiet met the QP threshold
- Retest in 3-6 months and if there are ongoing problems consistent with what we have seen where they do not reach qualified pass levels please let us know.

### **MORPHOLOGY NOTES**

Unfortunately there are a number of suboptimal results on the morphology. We have withdrawn lots that did not improve on the retest or were too far from a qualified pass. The retests show an upward trend in results and we have opted to publish all the results for complete transparency. Some bulls have not quiet reached the qualified pass threshold and should just require a little more time. If you would like the certificates with Morphology statistics we can provide that at your request. The hurdles have been:

1. 3 day sickness: During March, April and May this year we experienced a severe wave of BEF (3 day sickness). The good news is they will have fantastic natural and vaccinated immunity to last a while. But they haven't had long enough to fully recover from a semen perspective. We don't see 3 day every year so can be hit hard when it comes, and this year was our worst experience to date. Despite vaccination a lot went down with fevers and suffered from joint swellings. We lost a number of cattle, including bulls this year due to the severity.

There was a lot of improvement in the 3 weeks from initial testing (5<sup>th</sup> of May) to the rechecks (1<sup>st</sup> of June) and we feel they will continue to improve over the coming couple of months, they just need a little more time.

2. Age of testing: the T bulls have been tested between 13 and 15 months of age. Those that have not passed are mostly trending up with their results and should improve as they mature.
3. Grain supplementation: The summer was dry and the bulls have required some assistance with a grain ration to keep them going ahead. Subclinical ruminal acidosis can affect spermatogenesis and hence morphology results.



Individual veterinarian and morphology notes:

Lot	ID	Marker	Notes
04	S092	×	Morphology fail due to excessive proximal droplets 25% (20% threshold)
05	S083	×	Morphology fail mainly due to proximal droplets 42% (20% threshold)
07	S115	*	Horizontal crack lateral claw left fore. No lameness. Physical pass
09	S106	*	Mild scar left eye
12	SY17	*	Mild bilateral hock swelling. No lameness. Physical pass
13	SY24	*	Mild hock swelling. No lameness
22	T013	×	Morphology fail mainly due to midpiece abnormality 41% (30% threshold)
23	T082	×*	Morphology fail. Proximal Droplets 15% (20% threshold), Mid Piece 15% (threshold 30%) Vacuoles and teratoids 21% (20% threshold) *Mild hock swelling and Immature penis consistent with age. Physical pass
25	T021	×	Morphology fail due to excessive proximal droplets 39% (20% threshold)
27	T036	*	Mild Bursitis. No Lameness. Physical pass. QP morphology
30	T050	× *QP	Morphology fail due to excessive Vacuoles and teratoids 28% (20% threshold) *QP: Recent injury to Right eye, treated intensively and healing almost complete but will have a scar spot. Vision appears unaffected.
38	S157	*	Moderate bilateral hind hock swelling. No Lameness. QP due to hocks
40	S164	*	Old wire injury (>12 months ago) around Left Hind Cannon bone. The bone is thickened where the injury healed and there is no ongoing lameness or issue with this injury
41	S145	*	Mild hock swelling. No lameness. Physical pass
49	S137	*	Mild hock swelling. No lameness. Physical pass
50	S135	*	Mild hock swelling. No lameness. Physical pass

Reference for Morphology values: Perry, V, 2018, 'A refresher on sperm morphology', *Proceedings of AVA Annual Conference, Brisbane*, pp 1-14

<https://qsml.com.au/wp-content/uploads/2017/04/A-Refresher-on-Sperm-Morphology-Associate-Professor-Viv-Perry.pdf>

The above article has lots of information about morphology, what different defects may mean, why they may occur, and how they might affect fertility. It is heavy reading but helpful when interpreting morphology reports.