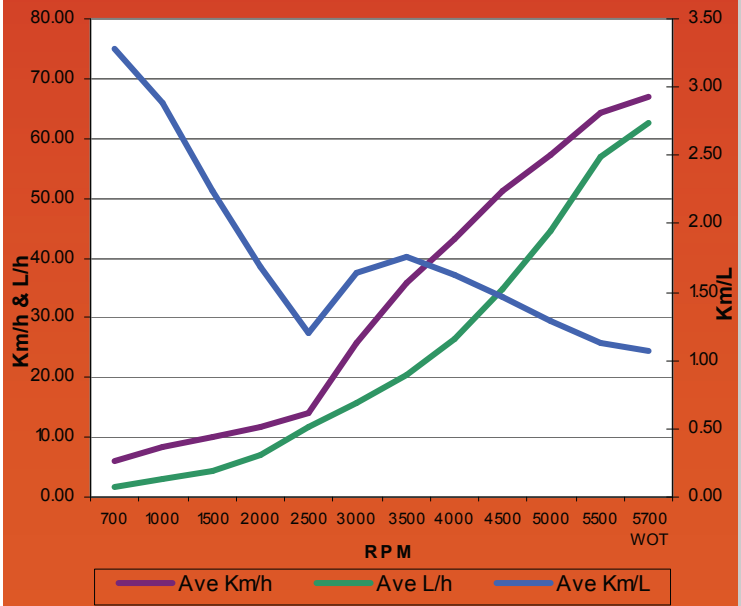
Performance Bulletin

Test Date: 10th September 2010

F150AETX

Performance Data

RPM	Ave Km/h	Ave L/h	Ave Km/L
700	5.90	1.80	3.28
1000	8.35	2.90	2.88
1500	10.00	4.45	2.25
2000	11.85	7.05	1.68
2500	14.00	11.70	1.20
3000	25.65	15.60	1.64
3500	**35.75**	**20.40**	**1.75**
4000	43.25	26.60	1.63
4500	51.10	34.80	1.47
5000	57.40	44.55	1.29
5500	64.40	56.95	1.13
5700 WOT	67.00	62.50	1.07



Test Performed by certified Yamaha Technicians

Boat Manufactured by:
http://www.seajayboats.com.au/

SEA JAY 6.2 FREEDOM

Length	6.25m
Beam	2.49m
Dry Weight	1,170kg
Max Hp	200hp
Fuel Capacity	300L
Weight as Tested (approximate)	1,805kg

F150AETX

Horsepower	110.3 kW (150ps) @ 5500rpm
Engine Type	16-Valve DOHC Direct-Action In Line 4 Cylinder
Weight	220kg
Gear Ratio	2.00 (28/14)
Mounting Height	2nd Hole

PROPELLER

Series	Black M (6G5)
Diameter/ Pitch	13¾ x 17"
Part Number	6G5-45978-03

TEST CONDITIONS

Crew	2
Air Temperature	17.7° C
Wind Speed	>5 Knots
Fuel	300L
Water Temperature	22.0° C

TEST PERFORMANCE SUMMARY

Max Ave Speed	67.00 Km/h or 36.11 Knots
Best Cruising Km/L	1.75 Km/L @ 3500rpm
Range, Based on 95% Fuel Capacity at Best Km/L	499 Km or 269Nm
Prop Slip Calc at WOT	9%

Data may vary due to changes in weather, tides, boat load, hull & propeller conditions, temperature, atmospheric pressure and wind direction. Fuel data gathered with a non-calibrated Yamaha fuel gauge. Speed data recorded with GPS receiver.
Yamaha Motor Australia accepts no responsibility for the accuracy of these readings.
All test data is recorded with the engine fully trimmed in (-4), until 5500 RPM, where possible.

Results of Sea Trial

Date:	10-Sep-10	**Place:**	Brisbane River	**Name:**	Glenn Gibson & Gaven Paterson		
Boat:	Freedom 6.2	**Engine:**	F150AETX/11	**Conditions:**	Chop, Tidal		
BB:	Sea Jay Plate Extreme	**Serial No:**	1095172	**Weather:**	Sunny, Fine		
Max Ave Speed:	67.40 Km/h	**Output:**	110.3 @ 5500 kW/Rpm	**Wind Direction:**	SW		
Max RPM Achieved:	5400 RPM	**Prop DxP:**	13¾ x 19	**Wind Velocity:**	>5	Knots	
Max Horse Power	200 HP	**Prop Type:**	M Series S-Steel	**Temperature:**	17.7º	Deg C	
Max Transom Weight:	350 Kgs	**Weight:**	220 Kgs	**Humidity:**	61	%	
Displacement:	1,170 Kgs	**Gear Ratio:**	2.00 (28/14)	**Sea Water Temp:**	22º	Deg C	
Fuel/tank size:	300 Litres	**Prop Pt #**	6G5-45974-03	**Pressure:**	1024.8	Hpa	
Eng Height:	2nd Hole	**Alt Output:**	35 Amps	**Max. Fuel Consumption:**	62.60	L/h	
		**Crew:**	2 Persons	**Fuel:**	150	Kgs	
		Crew Wt:	190 Kgs	**Stores: (Water)**	50	Kgs	
		Hull + Eng:	1,390 Kgs	**Other: (Tools)**	0	Kgs	
L.O.A. =	6.25M **Beam =** 2.49M	**Safety Kit:**	25 Kgs	**Approx Total:**	1,805	Kgs	

Test	Engine Trim Bars	Direction	RPM	Speed Km/h	Fuel L/h	Av Speed		Av Fuel Consumption		Kms per Litre	Av N.mpg	N.M. per Litre	Range in Kms*	Prop Slip
1		W	**700**	5.40	1.80	5.70	Km/h	1.80	L/h	3.17	7.75	1.71	903	44%
2		E	700	6.00	1.80	3.07	*Knots*	0.40	*G/PH*					
1		W	**1000**	7.40	3.00	7.95	Km/h	2.85	L/h	2.79	6.83	1.50	795	45%
2		E	1000	8.50	2.70	4.29	*Knots*	0.63	*G/PH*					
1		W	**1500**	10.20	5.10	10.45	Km/h	4.85	L/h	2.15	5.27	1.16	614	52%
2		E	1500	10.70	4.60	5.63	*Knots*	1.07	*G/PH*					
1		W	**2000**	12.60	7.80	12.65	Km/h	7.75	L/h	1.63	3.99	0.88	465	56%
2		E	2000	12.70	7.70	6.82	*Knots*	1.71	*G/PH*					
1		W	**2500**	16.00	13.80	16.15	Km/h	13.15	L/h	1.23	3.01	0.66	350	55%
2		E	2500	16.30	12.50	8.70	*Knots*	2.90	*G/PH*					
1		W	**3000**	28.10	16.60	28.40	Km/h	16.35	L/h	1.74	4.25	0.94	495	35%
2		E	3000	28.70	16.10	15.31	*Knots*	3.60	*G/PH*					
1		W	**3500**	37.90	23.50	37.95	Km/h	21.75	L/h	1.74	4.27	0.94	497	25%
2		E	3500	38.00	20.00	20.46	*Knots*	4.79	*G/PH*					
1		W	**4000**	45.20	28.20	45.45	Km/h	27.90	L/h	1.63	3.99	0.88	464	22%
2		E	4000	45.70	27.60	24.50	*Knots*	6.15	*G/PH*					
1		W	**4500**	52.70	38.30	52.85	Km/h	36.95	L/h	1.43	3.50	0.77	408	19%
2		E	4500	53.00	35.60	28.49	*Knots*	8.14	*G/PH*					
1		W	**5000**	59.20	51.20	59.65	Km/h	47.75	L/h	1.25	3.06	0.67	356	18%
2		E	5000	60.10	44.30	32.15	*Knots*	10.52	*G/PH*					
1		W	**5400**	65.80	62.90	67.40	Km/h	62.60	L/h	1.08	2.63	0.58	307	14%
2		E	5400	69.00	62.30	36.33	*Knots*	13.79	*G/PH*					

Turning: Able to turn at ¾ trim with limited ventilation, possible to lift 1 hole.

Comments: Test 1 of 2. 19" S-Steel M series prop, only able to get 5400rpm WOT with maximum throttle & trim.

14% Slip with 19" prop, 9% Slip with 17" prop and revved to 5700rpm.

13.1 Litres of fuel used in testing, 19.17 Km travelled with an average speed of 25.0 Km/h = Ave 1.50 Km/L testing.

*** Range in km's = 95% of fuel tank capacity**

Data may vary due to changes in weather, tides, boat load, hull and prop conditions, temperature, atmospheric pressure and wind direction.

Fuel data gathered with Yamaha Fuel Management Gauge (non-calibrated). Speed data gathered with GPS receiver. Yamaha Motor Australia accepts no responsibility for the accuracy of these readings. All test data is recorded with the engine fully trimmed in (-4) until 5500 Rpm, where possible.

Results of Sea Trial

Date:	10-Sep-10	**Place:**	Brisbane River		**Name:**	Glenn Gibson & Gaven Paterson			
Boat:	Freedom 6.2		**Engine:**	F150AETX/11		**Conditions:**	Chop, Tidal		
BB:	Sea Jay Plate Extreme		**Serial No:**	1095172		**Weather:**	Sunny, Fine		
Max Ave Speed:	67.00	**Km/h**	**Output:**	110.3 @ 5500	**kW/Rpm**	**Wind Direction:**	SW		
Max RPM Achieved:	6300	**RPM**	**Prop DxP:**	**13¾ x**	**17**	**Wind Velocity:**	>5	**Knots**	
Max Horse Power	200	**HP**	**Prop Type:**	**M Series S-Steel**		**Temperature:**	17.7º	**Deg C**	
Max Transom Weight:	350	**Kgs**	**Weight:**	220	**Kgs**	**Humidity:**	61	**%**	
Displacement:	1,170	**Kgs**	**Gear Ratio:**	2.00	(28/14)	**Sea Water Temp:**	22º	**Deg C**	
Fuel/tank size:	300	**Litres**	**Prop Pt #**	6G5-45978-03		**Pressure:**	1024.8	**Hpa**	
Eng Height:	**2nd Hole**		**Alt Output:**	35	**Amps**	**Max. Fuel Consumption**	62.60	**L/h**	
			**Crew:**	2	**Persons**	**Fuel:**	150	**Kgs**	
			Crew Wt:	190	**Kgs**	**Stores: (Water)**	50	**Kgs**	
			Hull + Eng:	1,390	**Kgs**	**Other: (Tools)**	0	**Kgs**	
L.O.A. =	**6.25M**	**Beam =**	**2.49M**	**Safety Kit:**	25	**Kgs**	**Approx Total:**	1,805	**Kgs**

Test	Engine Trim Bars	Direction	RPM	Speed Km/h	Fuel L/h	Av Speed		Av Fuel Consumption		Kms per Litre	Av N.mpg	N.M. per Litre	Range in Kms*	Prop Slip
1		W	**700**	5.30	1.80	5.90	Km/h	1.80	L/h	3.28	8.02	1.77	934	35%
2		E	700	6.50	1.80	3.18	*Knots*	0.40	*G/PH*					
1		W	**1000**	8.10	2.90	8.35	Km/h	2.90	L/h	2.88	7.05	1.55	821	36%
2		E	1000	8.60	2.90	4.50	*Knots*	0.64	*G/PH*					
1		W	**1500**	9.00	4.60	10.00	Km/h	4.45	L/h	2.25	5.50	1.21	640	49%
2		E	1500	11.00	4.30	5.39	*Knots*	0.98	*G/PH*					
1		W	**2000**	10.50	7.10	11.85	Km/h	7.05	L/h	1.68	4.11	0.91	479	54%
2		E	2000	13.20	7.00	6.39	*Knots*	1.55	*G/PH*					
1		W	**2500**	12.00	12.30	14.00	Km/h	11.70	L/h	1.20	2.93	0.64	341	57%
2		E	2500	16.00	11.10	7.55	*Knots*	2.58	*G/PH*					
1		W	**3000**	24.30	15.70	25.65	Km/h	15.60	L/h	1.64	4.02	0.89	469	34%
2		E	3000	27.00	15.50	13.83	*Knots*	3.44	*G/PH*					
1		W	**3500**	34.70	20.90	35.75	Km/h	20.40	L/h	1.75	4.29	0.94	499	21%
2		E	3500	36.80	19.90	19.27	*Knots*	4.49	*G/PH*					
1		W	**4000**	42.40	28.40	43.25	Km/h	26.60	L/h	1.63	3.98	0.88	463	17%
2		E	4000	44.10	24.80	23.31	*Knots*	5.86	*G/PH*					
1		W	**4500**	50.60	35.80	51.10	Km/h	34.80	L/h	1.47	3.59	0.79	418	12%
2		E	4500	51.60	33.80	27.54	*Knots*	7.67	*G/PH*					
1		W	**5000**	56.70	45.80	57.40	Km/h	44.55	L/h	1.29	3.15	0.69	367	11%
2		E	5000	58.10	43.30	30.94	*Knots*	9.81	*G/PH*					
1		W	**5500**	63.90	60.30	64.40	Km/h	56.95	L/h	1.13	2.77	0.61	322	10%
2		E	5500	64.90	53.60	34.71	*Knots*	12.54	*G/PH*					
1		W	**5700**	66.50	62.80	67.00	Km/h	62.50	L/h	1.07	2.62	0.58	306	9%
2		E	5700	67.50	62.20	36.11	*Knots*	13.77	*G/PH*					

Turning: Able to turn at ¾ trim with limited ventilation, possible to lift 1 hole.

Comments: Test 2 of 2. 17" S-Steel M series prop, able to get 5700rpm WOT with maximum throttle & trim.

14% Slip with 19" prop, 9% Slip with 17" prop and revved to 5700rpm.

13.1 Litres of fuel used in testing, 19.17 Km travelled with an average speed of 25.0 Km/h = Ave 1.50 Km/L testing.

*** Range in km's = 95% of fuel tank capacity**

Data may vary due to changes in weather, tides, boat load, hull and prop conditions, temperature, atmospheric pressure and wind direction.

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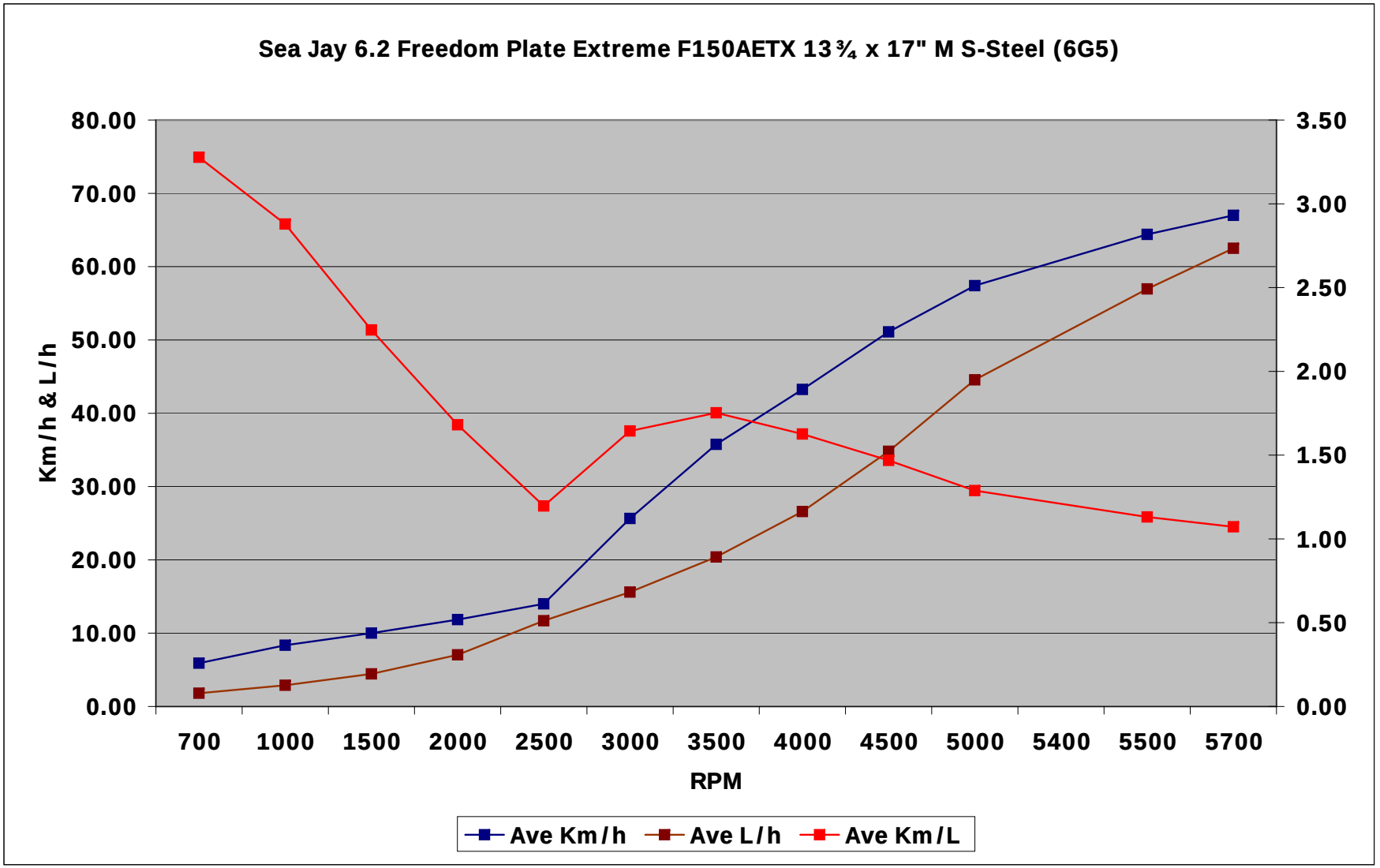
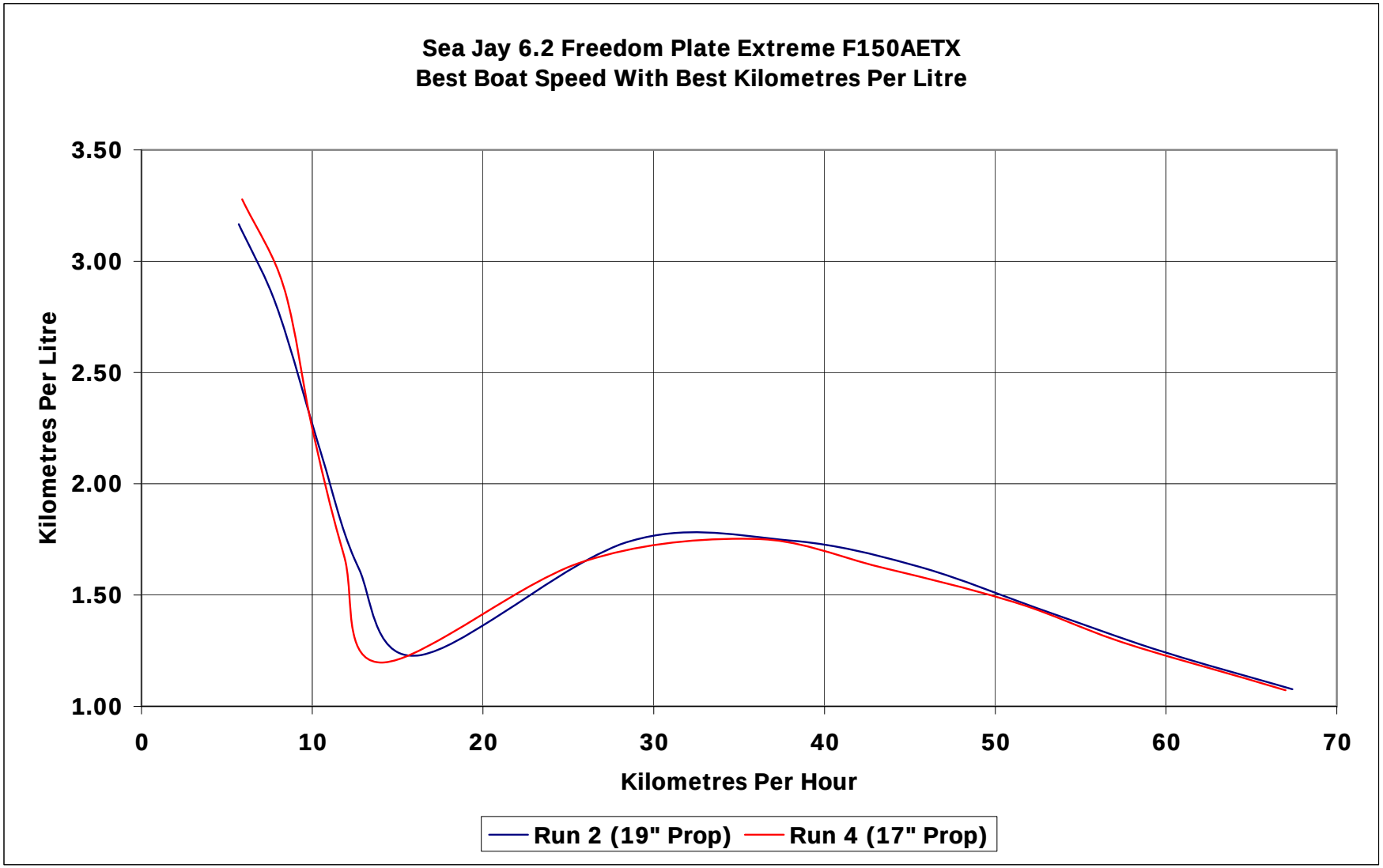
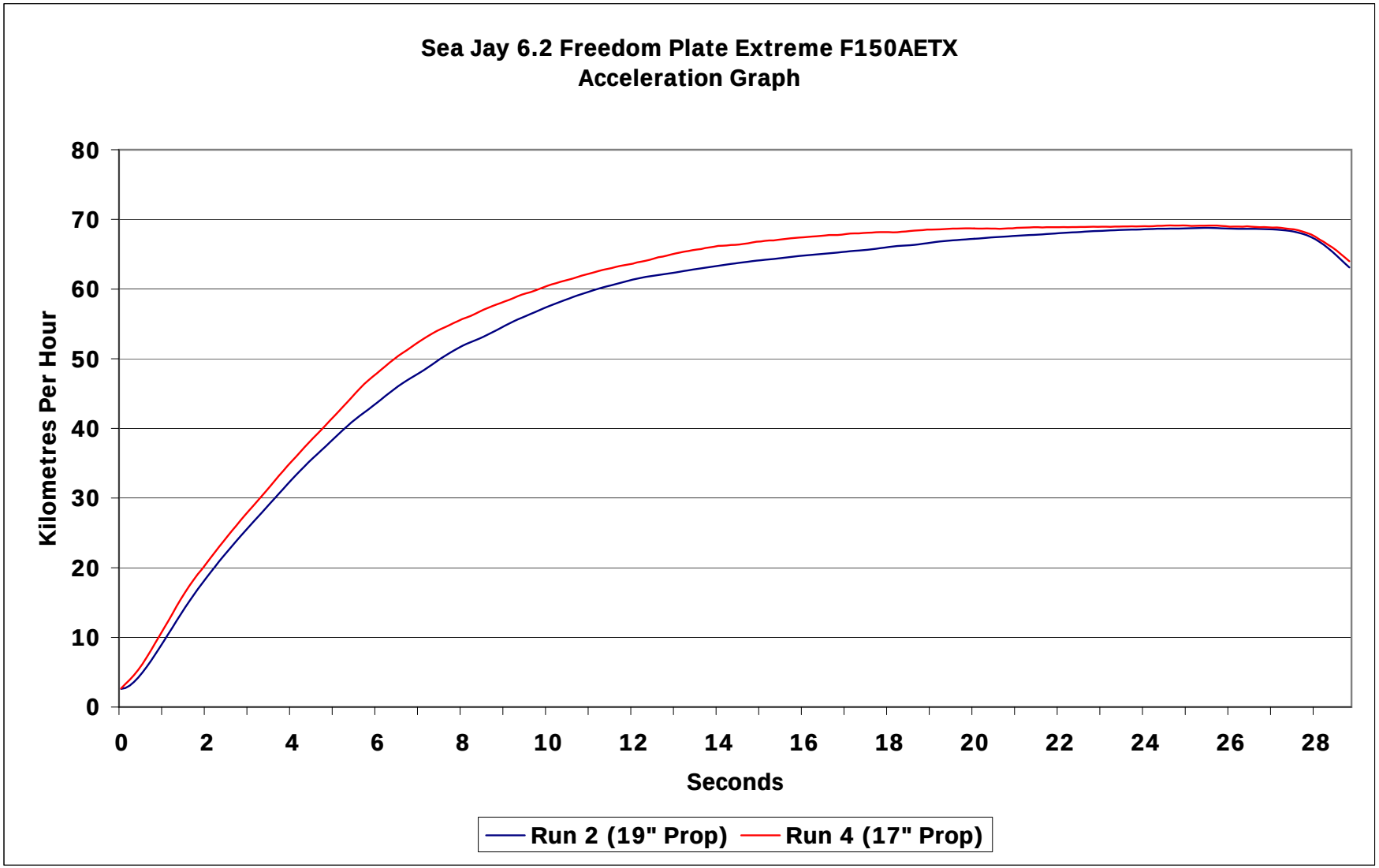

Sea Jay 6.2 Freedom Plate Extreme F150AETX 13¾ x 17" M S-Steel (6G5)
Km/h & L/h
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
700
1000
1500
2000
2500
3000
3500
4000
4500
5000
5400
5500
5700
RPM
Ave Km/h
Ave L/h
Ave Km/L


Sea Jay 6.2 Freedom Plate Extreme F150AETX
Best Boat Speed With Best Kilometres Per Litre
Kilometres Per Litre
3.50
3.00
2.50
2.00
1.50
1.00
0
10
20
30
40
50
60
70
Kilometres Per Hour
Run 2 (19" Prop)
Run 4 (17" Prop)


Sea Jay 6.2 Freedom Plate Extreme F150AETX
Acceleration Graph
Kilometres Per Hour
80
70
60
50
40
30
20
10
0
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
Seconds
Run 2 (19" Prop)
Run 4 (17" Prop)