

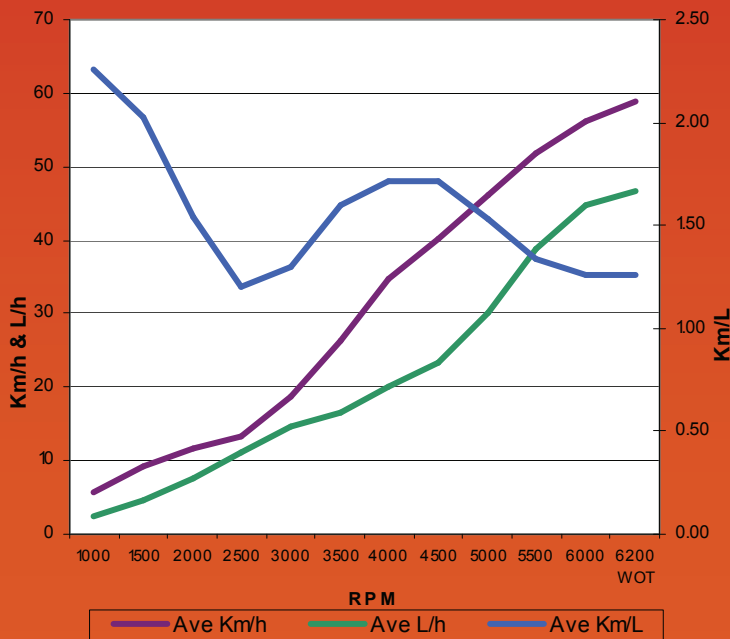
Performance Bulletin

Test Date: 30th August 2011



Performance Data

RPM	Ave Km/h	Ave L/h	Ave Km/L
700	3.65	1.60	2.28
1000	5.75	2.55	2.25
1500	9.10	4.50	2.02
2000	11.75	7.65	1.54
2500	13.25	11.00	1.20
3000	18.85	14.55	1.30
3500	26.35	16.45	1.60
4000	34.65	20.20	1.72
4500	40.20	23.40	1.72
5000	46.25	30.25	1.53
5500	51.85	38.90	1.33
6000	56.20	44.75	1.26
6200 WOT	59.00	46.80	1.26



Test Performed by certified Yamaha Technicians

Boat Manufactured by:

http://www.seajayboats.com.au/plate_xtreme

SEAJAY 6.0M FREEDOM

Length (LOA)	6.26m
Beam	2.39M
Dry Weight	1,050KGS
Max Hp	150HP
Fuel Capacity	240L
Weight as Tested (approximate)	1,600KGS

F70AETL/11

Horsepower	51.5kW (70ps) @ 5800rpm
Engine Type	16-Valve 996cm ³ SOHC In-Line 4 Cyl
Weight	119kg
Gear Ratio	2.33 (28/12)
Mounting Height	2nd hole from top

PROPELLER

Series	Alloy White K Series
Diameter/ Pitch	13½ x 15"
Part Number	6E5-45947-00

TEST CONDITIONS


Crew	2
Air Temperature	20.1°C
Wind Speed	>5 ~ 10 Knots
Fuel	100L
Water Temperature	Un-Unknown°C

TEST PERFORMANCE SUMMARY

Max Ave Speed	59.00Km/h or 31.80Knots
Best Cruising Km/L	1.72Km/L @ 4500rpm
Range, Based on 95% Fuel Capacity at Best Km/L	392 Kilometres
3% Prop Slip at 6200rpm	

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:	31-Aug-11	Place:	Bundaberg (Sandy Hook)		Name:	Glenn Gibson and Troy Glass						
Boat:	6.0M Freedom Plate Xtreme		Engine:	F70AETL		Conditions:	Flat, Fresh Water, Sheltered.					
BB:	Sea Jay		Serial No:	1009948 / 1009949		Weather:	Sunny & Hot.					
Max Ave Speed:	59.00	Km/h	Output:	51.5 @ 5800	kW/Rpm	Wind Direction:	SSE					
Max RPM Achieved:	6200	RPM	Prop DxP:	13½ x	15	Wind Velocity:	> 5 ~ 10		Knots			
Max Horse Power	150	HP	Prop Type:	Alloy White K		Temperature:	20.1°		Deg C			
Max Transom Weight:	240	Kgs	Weight:	129	Kgs	Humidity:	68		%			
Displacement:	1,050	Kgs	Gear Ratio:	2.33	(28/12)	Sea Water Temp:	?? Fresh Water - Cold		Deg C			
Fuel/tank size:	240	Litres	Prop Pt #	6E5-45947-00		Pressure:	1025.9		hPa			
Eng Height:	2nd Hole From Top		Alt Output:	16	Amps	Max. Fuel Consumption:	46.80		L/h			
			Crew:	2	Persons	Fuel:	100		Kgs			
			Crew Wt:	180	Kgs	Stores: (Tools)	20		Kgs			
			Hull + Eng:	1,308	Kgs	Other: (Water)	0		Kgs			
L.O.A. =	6.26M	Beam =	2.39M	Safety Kit:	20	Kgs	Approx Total:	1,628		Kgs		


Test	Engine Trim	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
						Km/h	Knots	L/h	G/PH					
1	-4	W	700	2.80	1.60	3.65	Km/h	1.60	L/h	2.28	5.58	1.23	520	47%
2	-4	E	700	4.50	1.60	1.97	Knots	0.35	G/PH					
1	-4	W	1000	5.10	2.70	5.75	Km/h	2.55	L/h	2.25	5.52	1.22	514	41%
2	-4	E	1000	6.40	2.40	3.10	Knots	0.56	G/PH					
1	-4	W	1500	9.00	4.60	9.10	Km/h	4.50	L/h	2.02	4.95	1.09	461	38%
2	-4	E	1500	9.20	4.40	4.90	Knots	0.99	G/PH					
1	-4	W	2000	11.40	8.10	11.75	Km/h	7.65	L/h	1.54	3.76	0.83	350	40%
2	-4	E	2000	12.10	7.20	6.33	Knots	1.69	G/PH					
1	-4	W	2500	13.00	11.10	13.25	Km/h	11.00	L/h	1.20	2.95	0.65	275	46%
2	-4	E	2500	13.50	10.90	7.14	Knots	2.42	G/PH					
1	-4	W	3000	18.40	15.10	18.85	Km/h	14.55	L/h	1.30	3.17	0.70	295	36%
2	-4	E	3000	19.30	14.00	10.16	Knots	3.20	G/PH					
1	-4	W	3500	25.90	16.60	26.35	Km/h	16.45	L/h	1.60	3.92	0.86	365	23%
2	-4	E	3500	26.80	16.30	14.20	Knots	3.62	G/PH					
1	-4	W	4000	34.60	20.20	34.65	Km/h	20.20	L/h	1.72	4.20	0.92	391	12%
2	-4	E	4000	34.70	20.20	18.68	Knots	4.45	G/PH					
1	-4	W	4500	39.90	23.70	40.20	Km/h	23.40	L/h	1.72	4.20	0.93	392	9%
2	-4	E	4500	40.50	23.10	21.67	Knots	5.15	G/PH					
1	-4	W	5000	46.20	30.60	46.25	Km/h	30.25	L/h	1.53	3.74	0.82	349	6%
2	-4	E	5000	46.30	29.90	24.93	Knots	6.66	G/PH					
1	-4	W	5500	51.50	39.40	51.85	Km/h	38.90	L/h	1.33	3.26	0.72	304	4%
2	-4	E	5500	52.20	38.40	27.95	Knots	8.57	G/PH					
1	Half Trim	W	6000	56.10	44.90	56.20	Km/h	44.75	L/h	1.26	3.07	0.68	286	5%
2	Half Trim	E	6000	56.30	44.60	30.29	Knots	9.86	G/PH					
1	Full Trim	W	6200	58.90	47.00	59.00	Km/h	46.80	L/h	1.26	3.08	0.68	287	3%
2	Full Trim	E	6200	59.10	46.60	31.80	Knots	10.31	G/PH					

Turning: Good, no problem, engines are set perfect on transom.

Comments: Test 1 of 3: Alloy Prop v S-Steel Prop & Test with Single engine w/ small 11" prop.
 Tested best with faster top end speed not hitting rev limiter. At best cruise it is 4% faster but used 9% more fuel, so best cruise is the same Km/L with Alloy and S-Steel. However, S-Steel hit limiter easy and we do not have in-between prop, so best suited for speed and RPM is white K alloy.

*** 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:	31-Aug-11	Place:	Bundaberg (Sandy Hook)		Name:	Glenn Gibson and Troy Glass						
Boat:	6.0M Freedom Plate Xtreme		Engine:	F70AETL		Conditions:	Flat, Fresh Water, Sheltered.					
BB:	Sea Jay		Serial No:	1009948 / 1009949		Weather:	Sunny & Hot.					
Max Ave Speed:	57.85	Km/h	Output:	51.5 @ 5800	kW/Rpm	Wind Direction:	SSE					
Max RPM Achieved:	6400	RPM	Prop DxD:	13½ x	14	Wind Velocity:	> 5 ~ 10		Knots			
Max Horse Power	150	HP	Prop Type:	Alloy White K		Temperature:	20.1°		Deg C			
Max Transom Weight:	240	Kgs	Weight:	129	Kgs	Humidity:	68		%			
Displacement:	1,050	Kgs	Gear Ratio:	2.33	(28/12)	Sea Water Temp:	?? Fresh Water - Cold		Deg C			
Fuel/tank size:	240	Litres	Prop Pt #	688-45932-60		Pressure:	1025.9		hPa			
Eng Height:	2nd Hole From Top		Alt Output:	16	Amps	Max. Fuel Consumption:	46.95		L/h			
			Crew:	2	Persons	Fuel:	100		Kgs			
			Crew Wt:	180	Kgs	Stores: (Tools)	20		Kgs			
			Hull + Eng:	1,308	Kgs	Other: (Water)	0		Kgs			
L.O.A. =	6.26M	Beam =	2.39M	Safety Kit:	20	Kgs	Approx Total:	1,628		Kgs		


Test	Engine Trim	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
						Km/h	Knots	L/h	G/PH					
1	-4	W	700	4.70	1.60	4.75	Km/h	1.55	L/h	3.06	7.50	1.65	699	26%
2	-4	E	700	4.80	1.50	2.56	Knots	0.34	G/PH					
1	-4	W	1000	6.50	2.60	6.95	Km/h	2.50	L/h	2.78	6.80	1.50	634	24%
2	-4	E	1000	7.40	2.40	3.75	Knots	0.55	G/PH					
1	-4	W	1500	9.20	4.40	9.25	Km/h	4.25	L/h	2.18	5.33	1.17	496	33%
2	-4	E	1500	9.30	4.10	4.99	Knots	0.94	G/PH					
1	-4	W	2000	11.40	6.70	11.70	Km/h	6.65	L/h	1.76	4.31	0.95	401	36%
2	-4	E	2000	12.00	6.60	6.31	Knots	1.46	G/PH					
1	-4	W	2500	13.00	9.60	13.20	Km/h	9.35	L/h	1.41	3.45	0.76	322	42%
2	-4	E	2500	13.40	9.10	7.11	Knots	2.06	G/PH					
1	-4	W	3000	16.20	13.70	16.45	Km/h	13.70	L/h	1.20	2.94	0.65	274	40%
2	-4	E	3000	16.70	13.70	8.87	Knots	3.02	G/PH					
1	-4	W	3500	25.30	16.30	25.30	Km/h	16.10	L/h	1.57	3.85	0.85	358	21%
2	-4	E	3500	25.30	15.90	13.64	Knots	3.55	G/PH					
1	-4	W	4000	31.50	19.00	32.15	Km/h	18.75	L/h	1.71	4.20	0.92	391	12%
2	-4	E	4000	32.80	18.50	17.33	Knots	4.13	G/PH					
1	-4	W	4500	38.50	21.70	38.50	Km/h	21.65	L/h	1.78	4.35	0.96	405	7%
2	-4	E	4500	38.50	21.60	20.75	Knots	4.77	G/PH					
1	-4	W	5000	42.30	25.50	42.75	Km/h	25.50	L/h	1.68	4.10	0.90	382	7%
2	-4	E	5000	43.20	25.50	23.04	Knots	5.62	G/PH					
1	-4	W	5500	49.10	33.30	49.15	Km/h	33.15	L/h	1.48	3.63	0.80	338	2%
2	-4	E	5500	49.20	33.00	26.49	Knots	7.30	G/PH					
1	Half Trim	W	6000	53.60	41.50	53.90	Km/h	41.10	L/h	1.31	3.21	0.71	299	2%
2	Half Trim	E	6000	54.20	40.70	29.05	Knots	9.05	G/PH					
1	Full Trim	W	6400	57.70	47.30	57.85	Km/h	46.95	L/h	1.23	3.02	0.66	281	1%
2	Full Trim	E	6400	58.00	46.60	31.18	Knots	10.34	G/PH					

Turning: Good, no problem, engines are set perfect on transom.

Comments: Test 2 of 3: Alloy Prop v S-Steel Prop & Test with Single engine w/ small 11" prop.
 Would have tested best with S-Steel prop but this boat needed in-between prop of 15" pitch. Alloy tested best because it reached 6200rpm, did not hit limiter and therefore had maximum speed. This S-Steel prop hit limiter at 6400rpm and lost top end speed.

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

Date:	31-Aug-11	Place:	Bundaberg (Sandy Hook)		Name:	Glenn Gibson and Troy Glass						
Boat:	6.0M Freedom Plate Xtreme		Engine:	F70AETL		Conditions:	Flat, Fresh Water, Sheltered.					
BB:	Sea Jay		Serial No:	1009948 / 1009949		Weather:	Sunny & Hot.					
Max Ave Speed:	34.55	Km/h	Output:	51.5 @ 5800	kW/Rpm	Wind Direction:	SSE					
Max RPM Achieved:	6300	RPM	Prop DxP:	14 x	11	Wind Velocity:	> 5 ~ 10		Knots			
Max Horse Power	150	HP	Prop Type:	Alloy White K		Temperature:	20.1°		Deg C			
Max Transom Weight:	240	Kgs	Weight:	129	Kgs	Humidity:	68		%			
Displacement:	1,050	Kgs	Gear Ratio:	2.33	(28/12)	Sea Water Temp:	?? Fresh Water - Cold		Deg C			
Fuel/tank size:	240	Litres	Prop Pt #	6E5-45954-00		Pressure:	1025.9		hPa			
Eng Height:	2nd Hole From Top		Alt Output:	16	Amps	Max. Fuel Consumption:	22.60		L/h			
			Crew:	2	Persons	Fuel:	100		Kgs			
			Crew Wt:	180	Kgs	Stores: (Tools)	20		Kgs			
			Hull + Eng:	1,308	Kgs	Other: (Water)	0		Kgs			
L.O.A. =	6.26M	Beam =	2.39M	Safety Kit:	20	Kgs	Approx Total:	1,628		Kgs		

Test	Engine Trim	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
						Km/h	Knots	L/h	G/PH					
1	-4	W	700	3.10	0.80	3.25	Km/h	0.75	L/h	4.33	10.60	2.34	988	35%
2	-4	E	700	3.40	0.70	1.75	Knots	0.17	G/PH					
1	-4	W	1000	4.50	1.20	4.60	Km/h	1.15	L/h	4.00	9.79	2.16	912	36%
2	-4	E	1000	4.70	1.10	2.48	Knots	0.25	G/PH					
1	-4	W	1500	6.20	2.00	6.35	Km/h	1.95	L/h	3.26	7.97	1.76	742	41%
2	-4	E	1500	6.50	1.90	3.42	Knots	0.43	G/PH					
1	-4	W	2000	8.00	2.90	8.00	Km/h	2.85	L/h	2.81	6.87	1.51	640	44%
2	-4	E	2000	8.00	2.80	4.31	Knots	0.63	G/PH					
1	-4	W	2500	9.60	3.80	9.65	Km/h	3.75	L/h	2.57	6.30	1.39	587	46%
2	-4	E	2500	9.70	3.70	5.20	Knots	0.83	G/PH					
1	-4	W	3000	10.70	4.90	10.85	Km/h	4.80	L/h	2.26	5.53	1.22	515	50%
2	-4	E	3000	11.00	4.70	5.85	Knots	1.06	G/PH					
1	-4	W	3500	11.90	7.20	11.95	Km/h	7.10	L/h	1.68	4.12	0.91	384	53%
2	-4	E	3500	12.00	7.00	6.44	Knots	1.56	G/PH					
1	-4	W	4000	12.80	9.30	12.85	Km/h	9.25	L/h	1.39	3.40	0.75	317	55%
2	-4	E	4000	12.90	9.20	6.93	Knots	2.04	G/PH					
1	-4	W	4500	13.70	11.90	13.85	Km/h	11.80	L/h	1.17	2.87	0.63	268	57%
2	-4	E	4500	14.00	11.70	7.47	Knots	2.60	G/PH					
1	-4	W	5000	16.80	14.90	16.80	Km/h	14.85	L/h	1.13	2.77	0.61	258	53%
2	-4	E	5000	16.80	14.80	9.06	Knots	3.27	G/PH					
1	-4	W	5500	23.50	18.10	24.00	Km/h	18.00	L/h	1.33	3.26	0.72	304	39%
2	-4	E	5500	24.50	17.90	12.94	Knots	3.96	G/PH					
1	Half Trim	W	6000	30.40	20.10	30.70	Km/h	19.85	L/h	1.55	3.78	0.83	353	29%
2	Half Trim	E	6000	31.00	19.60	16.55	Knots	4.37	G/PH					
1	Full Trim	W	6300	34.50	22.80	34.55	Km/h	22.60	L/h	1.53	3.74	0.82	349	24%
2	Full Trim	E	6300	34.60	22.40	18.62	Knots	4.98	G/PH					

Turning:

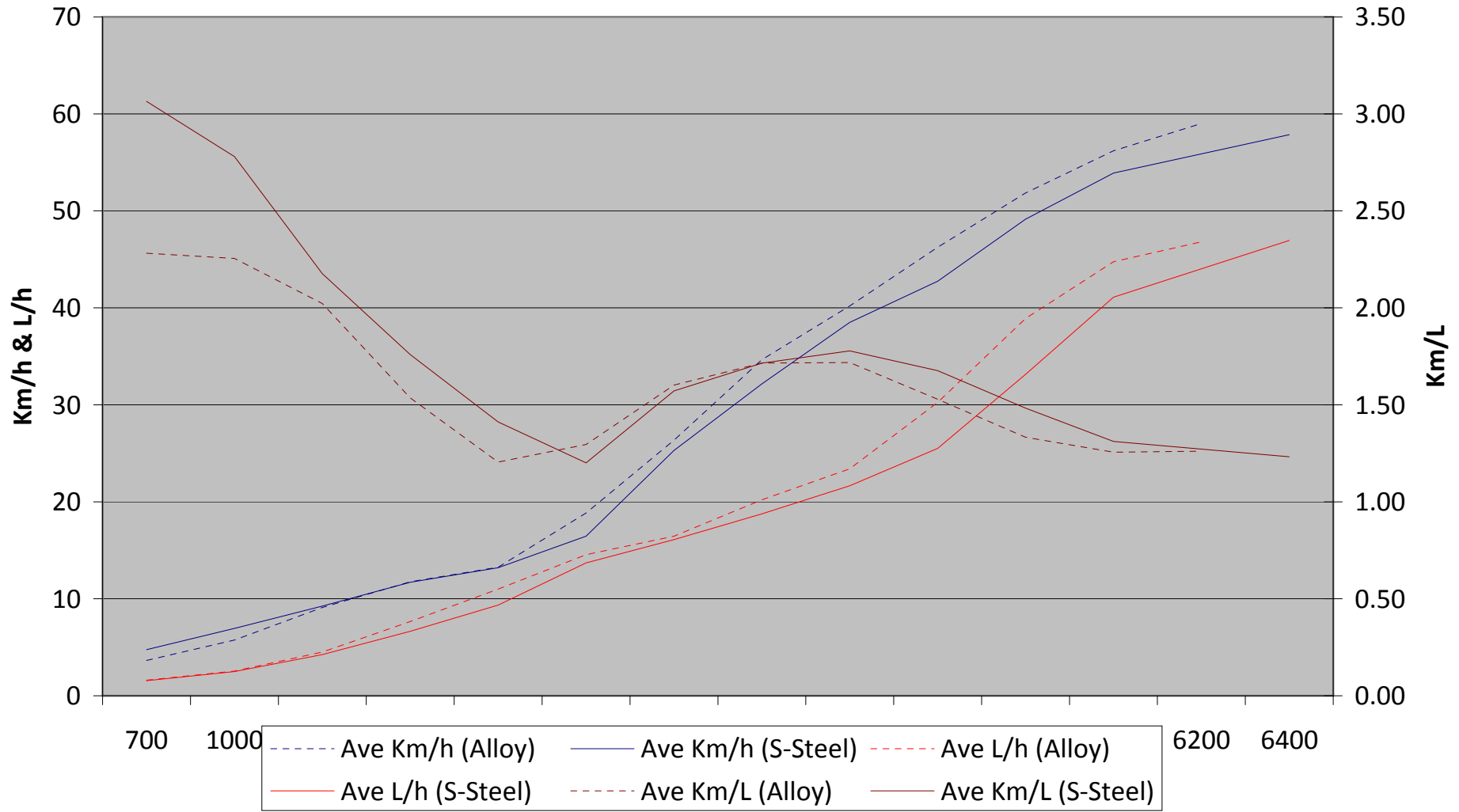
Comments: Test 1 of 3: Alloy Prop v S-Steel Prop & Test with Single engine w/ small 11" prop.
 Single engine test, performed well with 11" K Series prop, revved out to operating RPM and had a good push if coming home on 1 engine.

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

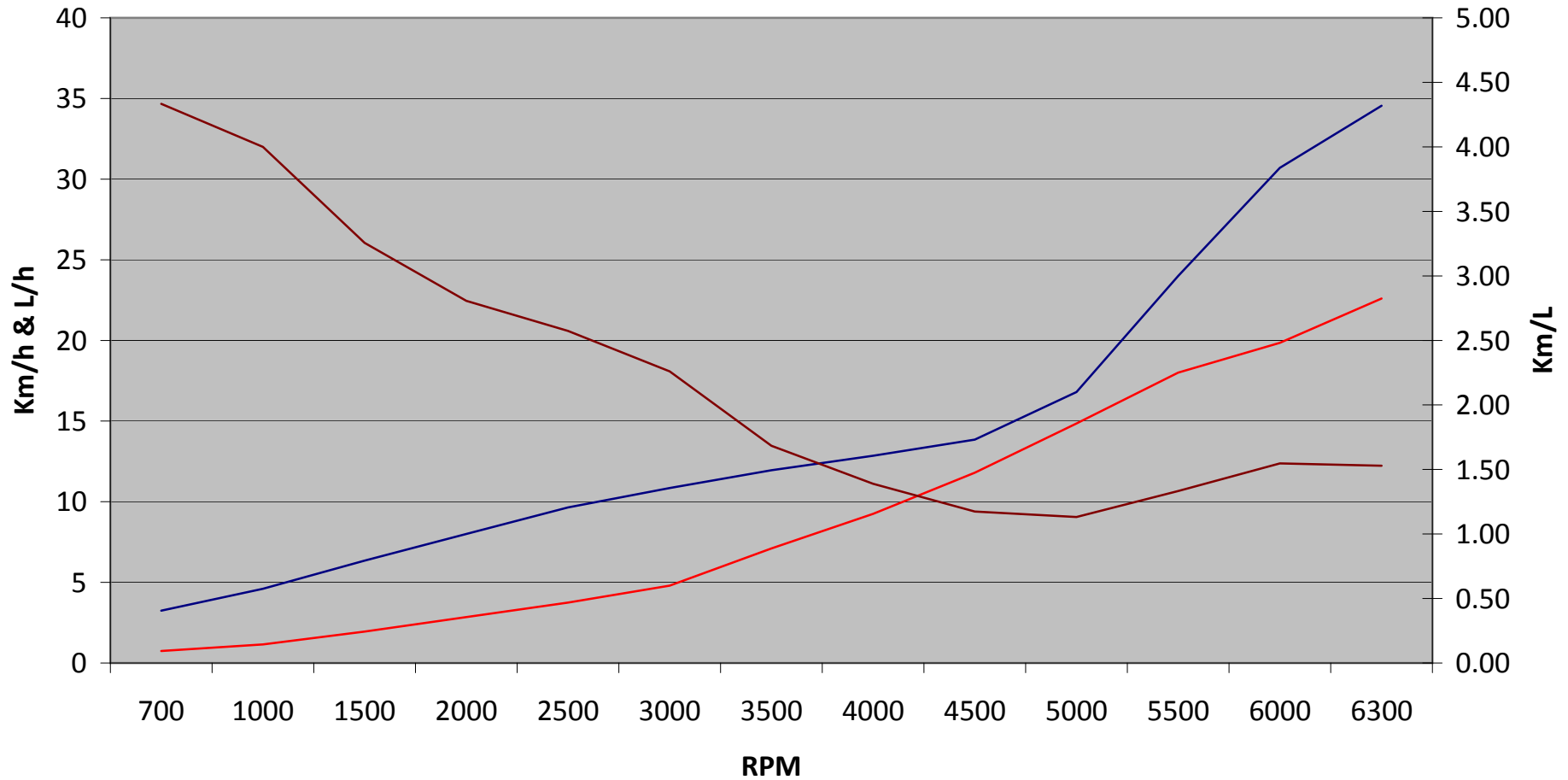
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Sea Jay 6.0M Freedom w/ 2 x F70AETX (Prop Testing)
13½ x 15" White K Alloy v 13½ x 14" Black K S-Steel

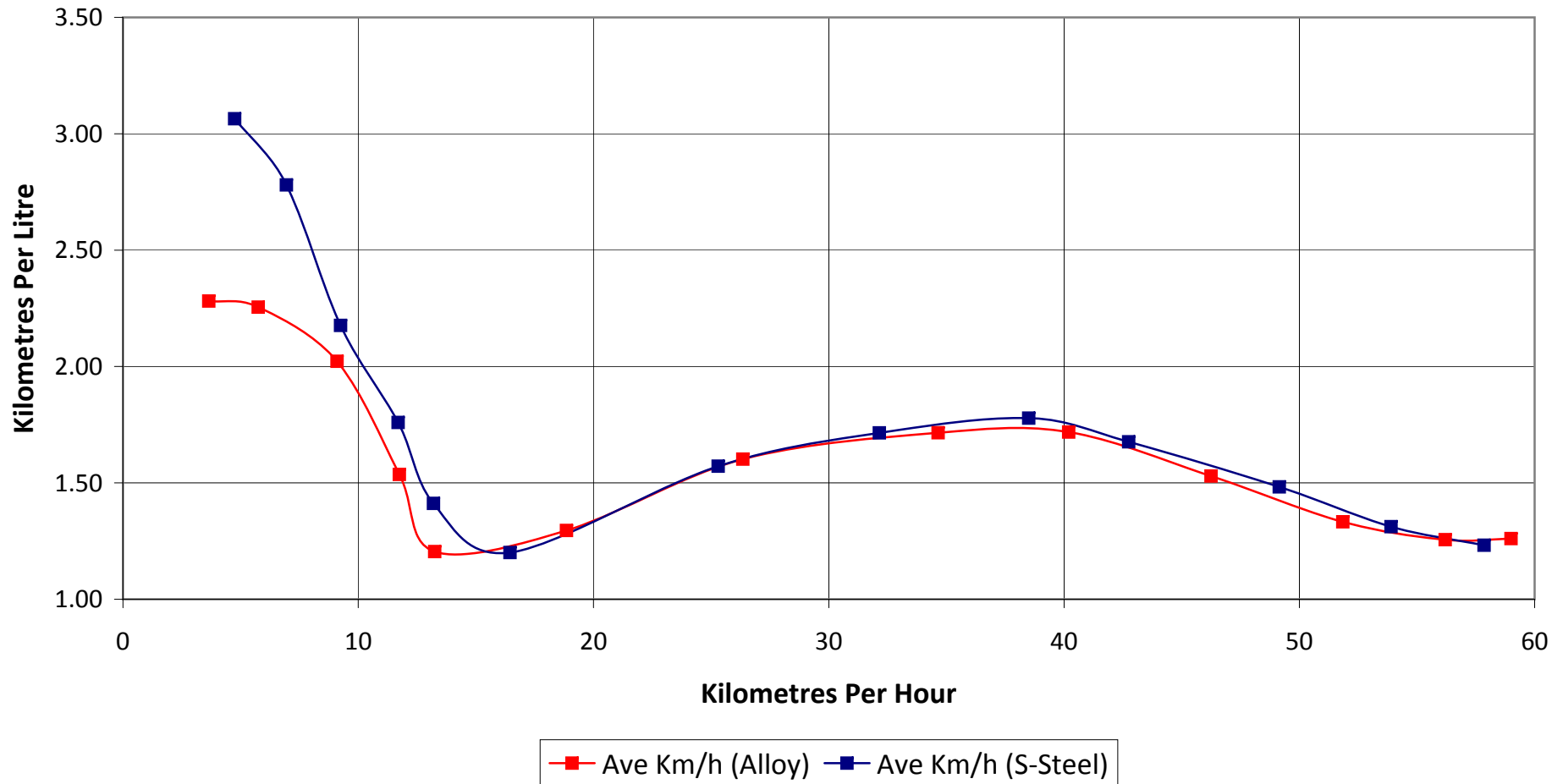


Sea Jay 6.0M Freedom w/ 2 x F70AETX (Prop Testing)
14 x 11" White K Alloy Single Engine Test

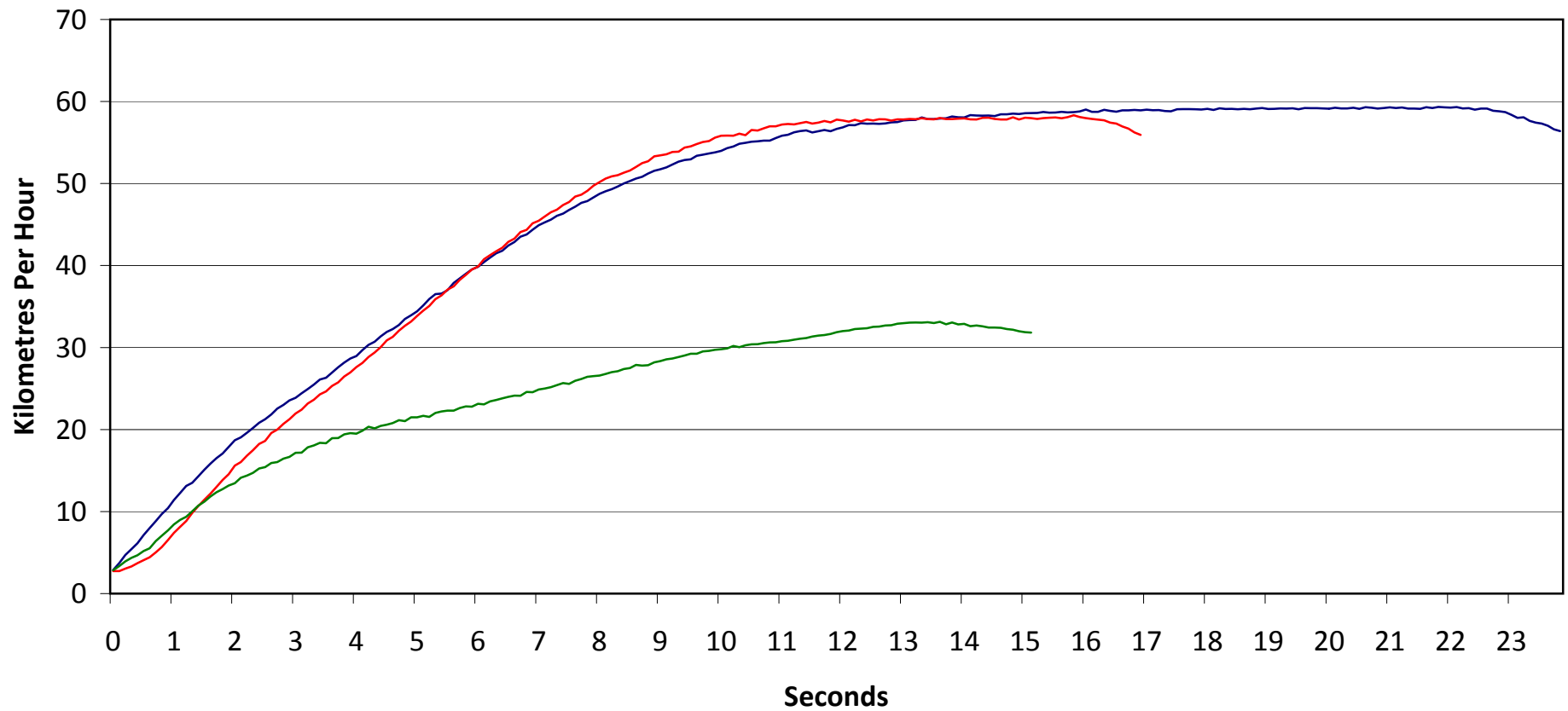


— Ave Km/h — Ave L/h — Ave Km/L

Sea Jay 6.0M Freedom w/ 2 x F70AETX (Prop Testing)
13½ x 15" White K Alloy v 13½ x 14" Black K S-Steel
Boat Speed With Best Kilometres Per Litre



Sea Jay 6.0M Freedom w/ 2 x F70AETX (Prop Testing)
13½ x 15" White K Alloy v 13½ x 14" Black K S-Steel
Acceleration Graph



— Alloy White K 13½ x 15" — S-Steel Black K 13½ x 14" — Alloy White K 14 x 11" (Single Engine Test)