

Performance Bulletin

Test Date: 23rd of March 2010



F70AETL/10

CRUISECRAFT 4.85 EXPLORER

Length	4.85m
Beam	2.02m
Dry Weight	631kg
Max Hp	90hp
Fuel Capacity	60L
Weight as Tested (approximate)	1012kg

F70AETL/10

Horsepower	51.5 kW (70 ps) @ 5800 rpm
Engine Type	16-Valve SOHC In Line 4 cyl
Weight (Inc. Prop)	119kg
Gear Ratio	2.33 (28/12)
Mounting Height	3RD Hole

PROPELLER

Series	White K Series Alloy (6E5)
Diameter/ Pitch	13 $\frac{1}{2}$ x 14"
Part Number	6E5-45958-00-EL

TEST CONDITIONS

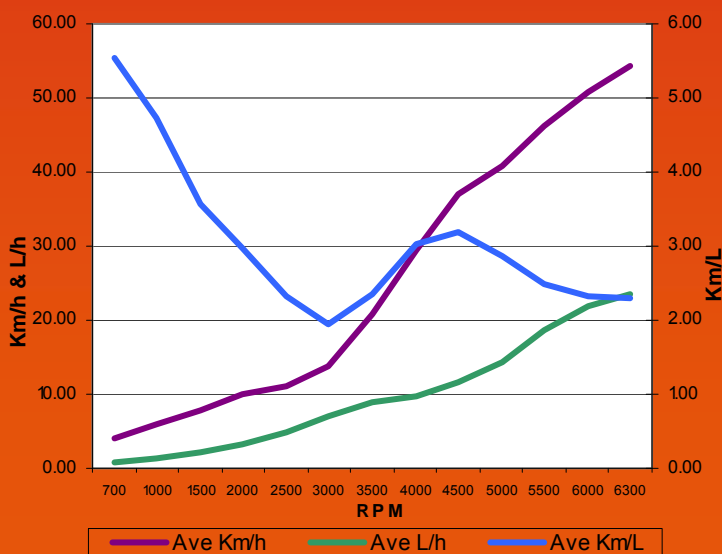
Crew	2
Air Temperature	29.2° C
Wind Speed	>10 Knots
Fuel	60L
Water Temperature	26.5° C

TEST PERFORMANCE SUMMARY

Max Ave Speed	54.45 Km/h or 29.35 Knots
Best Cruising Km/L	3.20 Km/L @ 4500rpm
Range, Based on 95% Fuel Capacity at Best Km/L	182 Km
Acceleration Idle to WOT	13.65 secs

Performance Data

RPM	Ave Km/h	Ave L/h	Ave Km/L
700	4.15	0.75	5.53
1000	5.90	1.25	4.72
1500	7.85	2.20	3.57
2000	10.00	3.35	2.99
2500	11.10	4.80	2.31
3000	13.80	7.05	1.96
3500	20.90	8.85	2.36
4000	29.55	9.75	3.03
4500	36.95	11.55	3.20
5000	40.80	14.20	2.87
5500	46.30	18.55	2.50
6000	50.80	21.90	2.32
6300	54.45	23.60	2.31




Test Performed by certified Yamaha Technicians

Boat Manufactured by:
Cruisecraft Boats—1308 Lytton Road, Hemmant QLD 4174
07 3390 4877 - <http://www.cruisecraft.com.au/>

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:	23-Mar-10	Place:	Brisbane River	Name:	Glenn Gibson & Grant Binskin						
Boat:	4.85 Explorer		Engine:	F70AETL/10		Conditions:	Calm				
BB:	CruiseCraft		Serial No:	6CJ L 9000015 D		Weather:	Hot, Sunny				
Max Ave Speed:	54.45	Km/h	Output:	51.5 @ 5800	kW/Rpm	Wind Direction:	ESE				
Max RPM Achieved:	6300	RPM	Prop DxD:	13 ⁵ / ₈ x 14		Wind Velocity:	>10	Knots			
Max Horse Power	90	HP	Prop Type:	Alloy White K		Temperature:	29.2°	Deg C			
Max Transom Weight:	176	Kgs	Weight:	119	Kgs	Humidity:	53	%			
Displacement:	631	Kgs	Gear Ratio:	2.33	(28/12)	Sea Water Temp:	26.5°	Deg C			
Fuel/tank size:	60	Litres	Prop Pt #	6E5-45958-00-EL		Pressure:	1017.9	Hpa			
Eng Height:	3rd Hole		Alt Output:	16	Amps	Max. Fuel Consumption:	23.60	L/h			
	Crew:	2	Persons	Fuel:		60	Kgs				
	Crew Wt:	180	Kgs	Stores: (Tools)	10		Kgs				
	Hull + Eng:	750	Kgs	Other: (Water)	0		Kgs				
L.O.A. =	4.85M	Beam =	2.02M	Safety Kit:	10	Kgs	Approx Total:	1,012			Kgs

Test	Engine Trim	Direction	RPM	Speed Km/h	Fuel L/h	Av Speed		Av Fuel Consumption		Kms per Litre	Av N.mpg gal	N.M. per Litre	Range in Kms*	Prop Slip
						Km/h	Knots	L/h	G/PH					
1	-4	W	700	4.60	0.70	4.15	Km/h	0.75	L/h	5.53	13.54	2.98	315	35%
2	-4	E	700	3.70	0.80	2.24	Knots	0.17	G/PH					
1	-4	W	1000	6.50	1.20	5.90	Km/h	1.25	L/h	4.72	11.55	2.54	269	36%
2	-4	E	1000	5.30	1.30	3.18	Knots	0.28	G/PH					
1	-4	W	1500	8.10	2.20	7.85	Km/h	2.20	L/h	3.57	8.73	1.92	203	43%
2	-4	E	1500	7.60	2.20	4.23	Knots	0.48	G/PH					
1	-4	W	2000	10.60	3.30	10.00	Km/h	3.35	L/h	2.99	7.30	1.61	170	45%
2	-4	E	2000	9.40	3.40	5.39	Knots	0.74	G/PH					
1	-4	W	2500	11.10	4.80	11.10	Km/h	4.80	L/h	2.31	5.66	1.25	132	52%
2	-4	E	2500	11.10	4.80	5.98	Knots	1.06	G/PH					
1	-4	W	3000	14.00	7.00	13.80	Km/h	7.05	L/h	1.96	4.79	1.06	112	50%
2	-4	E	3000	13.60	7.10	7.44	Knots	1.55	G/PH					
1	-4	W	3500	21.90	8.70	20.90	Km/h	8.85	L/h	2.36	5.78	1.27	135	35%
2	-4	E	3500	19.90	9.00	11.27	Knots	1.95	G/PH					
1	-4	W	4000	29.70	9.50	29.55	Km/h	9.75	L/h	3.03	7.42	1.63	173	19%
2	-4	E	4000	29.40	10.00	15.93	Knots	2.15	G/PH					
1	-4	W	4500	38.60	11.30	36.95	Km/h	11.55	L/h	3.20	7.83	1.72	182	10%
2	-4	E	4500	35.30	11.80	19.92	Knots	2.54	G/PH					
1	-4	W	5000	41.30	13.80	40.80	Km/h	14.20	L/h	2.87	7.03	1.55	164	11%
2	-4	E	5000	40.30	14.60	21.99	Knots	3.13	G/PH					
1	-4	W	5500	46.30	17.30	46.30	Km/h	18.55	L/h	2.50	6.11	1.35	142	8%
2	-4	E	5500	46.30	19.80	24.96	Knots	4.09	G/PH					
1	Half Trim	W	6000	51.30	21.90	50.80	Km/h	21.90	L/h	2.32	5.68	1.25	132	8%
2	Half Trim	E	6000	50.30	21.90	27.38	Knots	4.82	G/PH					
1	Full Trim	W	6300	54.90	23.50	54.45	Km/h	23.60	L/h	2.31	5.65	1.24	132	6%
2	Full Trim	E	6300	54.00	23.70	29.35	Knots	5.20	G/PH					

Turning: Lifted motor to number 3 hole & still able to trim over 75% without ventilation.

Comments: Prop size reduced to 14", boat weighs 1,000kgs tested, SeaJay weighs 872kgs tested with 15" prop.

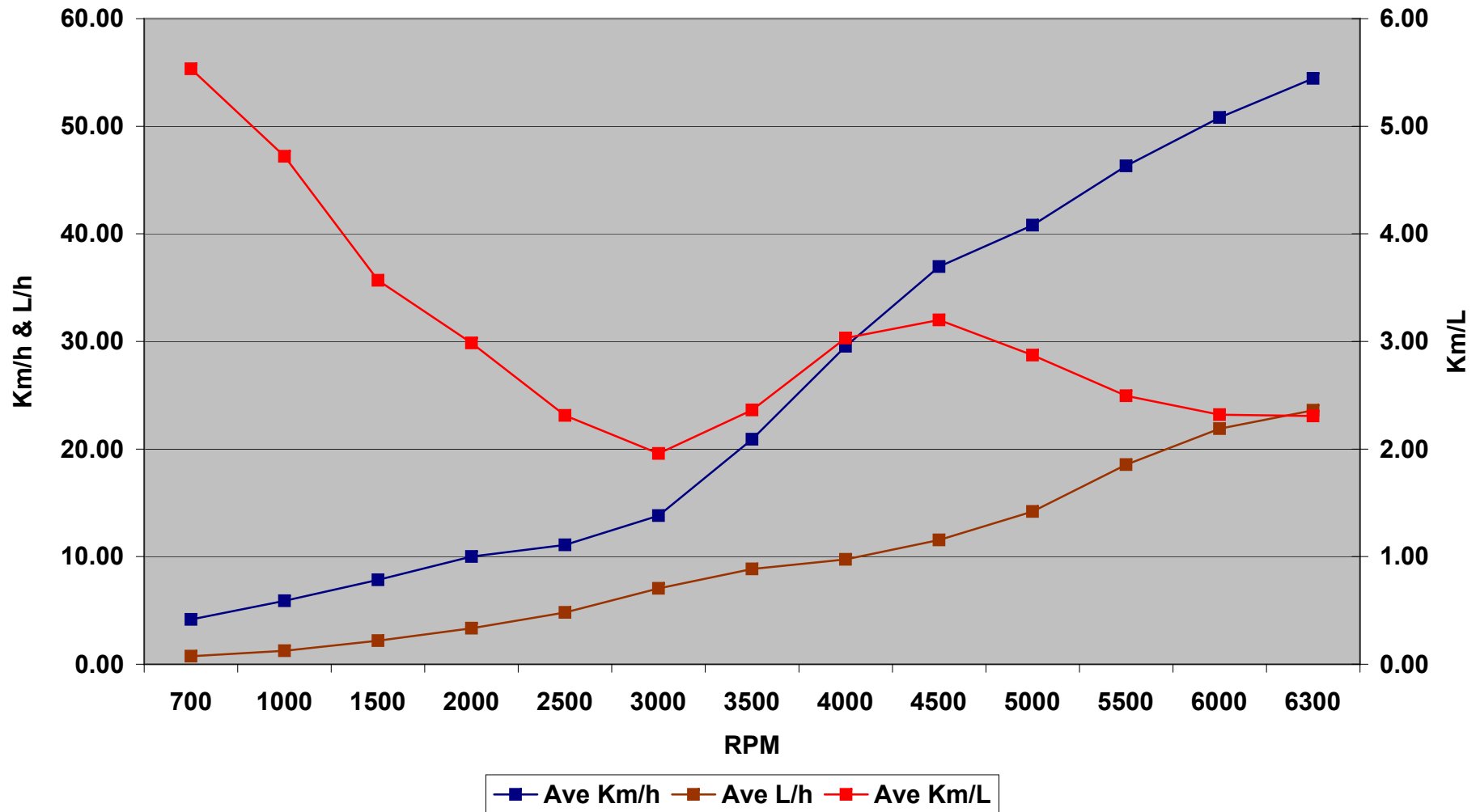
Idle speed 1.00Km/h to WOT 54.90Km/h with 2 PAX = 13.65 secs over 136.44 meters.

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

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CruiseCraft 4.85 Explorer, F70AETL/10 13⁵/₈ x 14" Alloy White K (6E5)



CruiseCraft 4.85 Explorer, F70AETL/10 13⁵/₈ x 14" Alloy White K (6E5)
Boat Kilometers Per Litre over Kilometers Per Hour

