

# Performance Bulletin

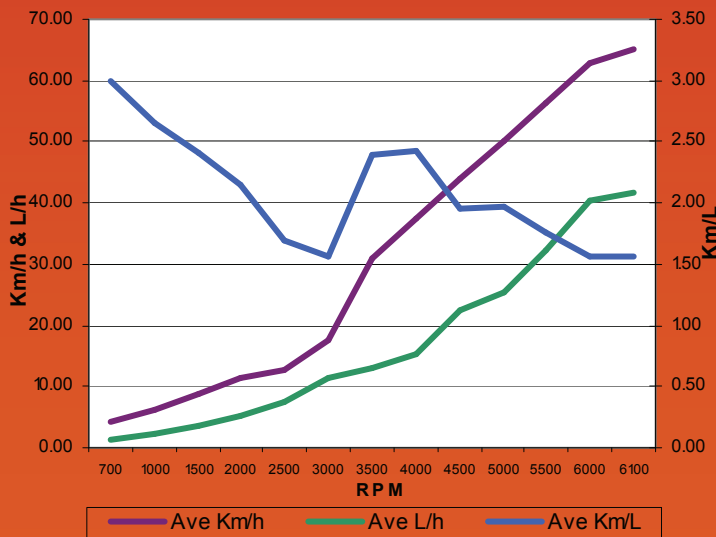
Test Date: 18th of September 2009



**F115AETX/09**

## Performance Data

RPM	Ave Km/h	Ave L/h	Ave Km/L
700	4.20	1.40	3.00
1000	6.10	2.30	2.65
1500	8.70	3.60	2.42
2000	11.40	5.30	2.15
2500	12.70	7.50	1.69
3000	17.70	11.30	1.57
3500	30.95	12.90	2.40
<u>4000</u>	<u>37.40</u>	<u>15.40</u>	<u>2.43</u>
4500	44.05	22.55	1.95
5000	50.30	25.50	1.97
5500	56.40	32.15	1.75
6000	62.95	40.40	1.56
6100	65.00	41.55	1.56



Test Performed by certified Yamaha Technicians

Boat Manufactured by:  
Sea Jay - 2 Maddison Court, Bundaberg QLD 4670  
07 4152 2111 - [www.seajayboats.com.au](http://www.seajayboats.com.au)

## SEAJAY 5.6M PRED-A-KING

Length	5.60m
Beam	2.30m
Dry Weight	895kg
Max Hp	150hp
Fuel Capacity	230L
Weight as Tested (approximate)	1,395kg

## F115AETX/09

Horsepower	84.6 kW (115 ps) @ 5500 rpm
Engine Type	16-Valve DOHC Direct-Action In Line 4 cyl
Weight (Inc. Prop)	193kg
Gear Ratio	2.15 (28/13)
Mounting Height	2nd Hole

## PROPELLER

Series	Black K SST (688)
Diameter/ Pitch	13 x 17"
Part Number	688-45930-02-98

## TEST CONDITIONS


Crew	2
Air Temperature	26.8° C
Wind Speed	13 Knots
Fuel	100L
Water Temperature	21.9° C

## TEST PERFORMANCE SUMMARY

Max Ave Speed	65.00 Km/h or 35.04 Knots
Best Cruising Km/L	2.43 Km/L @ 4000rpm
Range, Based on 95% Fuel Capacity at Best Km/L	415 Km
Acceleration 10 - 50 Km/h	6.71 Sec

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

<b>Date:</b>	18-Sep-09	<b>Place:</b>	Brisbane River		<b>Name:</b>	Glenn Gibson & Grant Binskin					
<b>Boat:</b>	SeaJay		<b>Engine:</b>	F115AETX/09		<b>Conditions:</b>	Choppy, wind against tide				
<b>BB:</b>	5.6 Preda-King		<b>Serial No:</b>	1097807		<b>Weather:</b>	Hot, Sunny				
<b>Max Ave Speed:</b>	65.00	<b>Km/h</b>	<b>Output:</b>	84.6 @ 5500	<b>kW/Rpm</b>	<b>Wind Direction:</b>	ENE				
<b>Max RPM Achieved:</b>	6100	<b>RPM</b>	<b>Prop DxP:</b>	<b>13 x</b>	<b>17</b>	<b>Wind Velocity:</b>	>13	<b>Knots</b>			
<b>Max Horse Power:</b>	150	<b>HP</b>	<b>Prop Type:</b>	<b>K S-Steel</b>		<b>Temperature:</b>	26.8°	<b>Deg C</b>			
<b>Max Transom Weight:</b>	230	<b>Kgs</b>	<b>Weight:</b>	193	<b>Kgs</b>	<b>Humidity:</b>	53	<b>%</b>			
<b>Displacement:</b>	895	<b>Kgs</b>	<b>Gear Ratio:</b>	2.15	(28/13)	<b>Sea Water Temp:</b>	21.9°	<b>Deg C</b>			
<b>Fuel/tank size:</b>	180	<b>Litres</b>	<b>Prop Pt #</b>	688-45930-02-98		<b>Pressure:</b>	1017.4	<b>Hpa</b>			
<b>Eng Height:</b>	<b>2nd Hole</b>		<b>Alt Output:</b>	25	<b>Amps</b>	<b>Max. Fuel Consumption:</b>	41.55	<b>L/h</b>			
			<b>Crew:</b>	2	<b>Persons</b>	<b>Fuel:</b>	100	<b>Kgs</b>			
			<b>Crew Wt:</b>	180	<b>Kgs</b>	<b>Stores: (Tools)</b>	15	<b>Kgs</b>			
			<b>Hull + Eng:</b>	1,088	<b>Kgs</b>	<b>Other: (Water)</b>		<b>Kgs</b>			
<b>L.O.A. =</b>	5.60M	<b>Beam =</b>	2.30M	<b>Safety Kit:</b>	10	<b>Kgs</b>	<b>Approx Total:</b>	1,395	<b>Kgs</b>		

Test	Engine Trim	Direction	RPM	Speed Km/h	Fuel L/h	Av Speed		Av Fuel Consumption		Kms per Litre	Av N.mp gal	N.M. per Litre	Range in Kms*	Prop Slip
						Km/h	Knots	L/h	G/PH					
1	-4	W	700	2.70	1.50	4.20	Km/h	1.40	L/h	3.00	7.34	1.62	513	50%
2	-4	E	700	5.70	1.30	2.26	Knots	0.31	G/PH					
1	-4	W	1000	4.60	2.40	6.10	Km/h	2.30	L/h	2.65	6.49	1.43	454	49%
2	-4	E	1000	7.60	2.20	3.29	Knots	0.51	G/PH					
1	-4	W	1500	6.60	3.70	8.70	Km/h	3.60	L/h	2.42	5.91	1.30	413	52%
2	-4	E	1500	10.80	3.50	4.69	Knots	0.79	G/PH					
1	-4	W	2000	9.70	5.30	11.40	Km/h	5.30	L/h	2.15	5.26	1.16	368	53%
2	-4	E	2000	13.10	5.30	6.14	Knots	1.17	G/PH					
1	-4	W	2500	10.80	7.60	12.70	Km/h	7.50	L/h	1.69	4.14	0.91	290	58%
2	-4	E	2500	14.60	7.40	6.85	Knots	1.65	G/PH					
1	-4	W	3000	16.60	11.30	17.70	Km/h	11.30	L/h	1.57	3.83	0.84	268	51%
2	-4	E	3000	18.80	11.30	9.54	Knots	2.49	G/PH					
1	-4	W	3500	29.10	13.00	30.95	Km/h	12.90	L/h	2.40	5.87	1.29	410	27%
2	-4	E	3500	32.80	12.80	16.68	Knots	2.84	G/PH					
1	-4	W	4000	35.60	15.90	37.40	Km/h	15.40	L/h	2.43	5.94	1.31	415	22%
2	-4	E	4000	39.20	14.90	20.16	Knots	3.39	G/PH					
1	-4	W	4500	41.90	22.60	44.05	Km/h	22.55	L/h	1.95	4.78	1.05	334	19%
2	-4	E	4500	46.20	22.50	23.74	Knots	4.97	G/PH					
1	-4	W	5000	48.70	25.70	50.30	Km/h	25.50	L/h	1.97	4.83	1.06	337	17%
2	-4	E	5000	51.90	25.30	27.11	Knots	5.62	G/PH					
1	-4	W	5500	54.80	32.70	56.40	Km/h	32.15	L/h	1.75	4.29	0.95	300	15%
1	-4	E	5500	58.00	31.60	30.40	Knots	7.08	G/PH					
2	Half Trim	W	6000	61.50	40.90	62.95	Km/h	40.40	L/h	1.56	3.81	0.84	266	13%
2	Half Trim	E	6000	64.40	39.90	33.93	Knots	8.90	G/PH					
1	Full Trim	W	6100	63.80	41.70	65.00	Km/h	41.55	L/h	1.56	3.83	0.84	268	12%
2	Full Trim	E	6100	66.20	41.40	35.04	Knots	9.15	G/PH					

**Turning:** Good motor height, no ventilation on tight turns.

**General Operation:** Good balance / combination of boat size, motor weight.

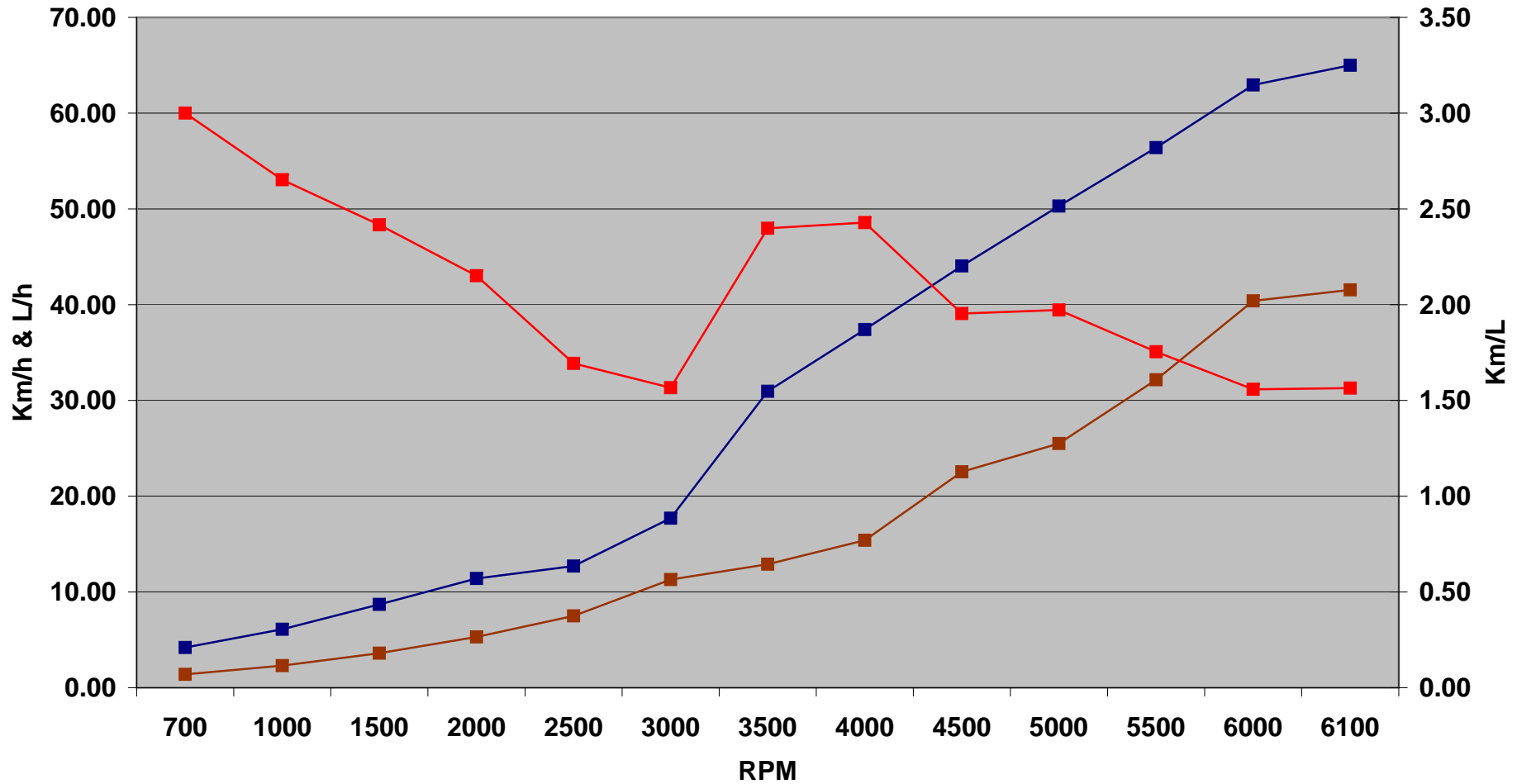
**Acceleration 10 - 50 Km/h:** 6.71 secs over 59.21 meters.

**Comments:** The 5.6 Preda-King is 2Km/h max speed faster, .40Km/L best cruiser better & 2.50secs quicker from 10 - 50Km/h faster than the same tested 5.3 Preda-King, same engine, same prop. Boat is much better balanced, awesome rig! Great Effort!

**4.40L of fuel used over 8.77Kms = 1.99Km/L average (testing conditions) @ 27.2Km/h ave speed.**

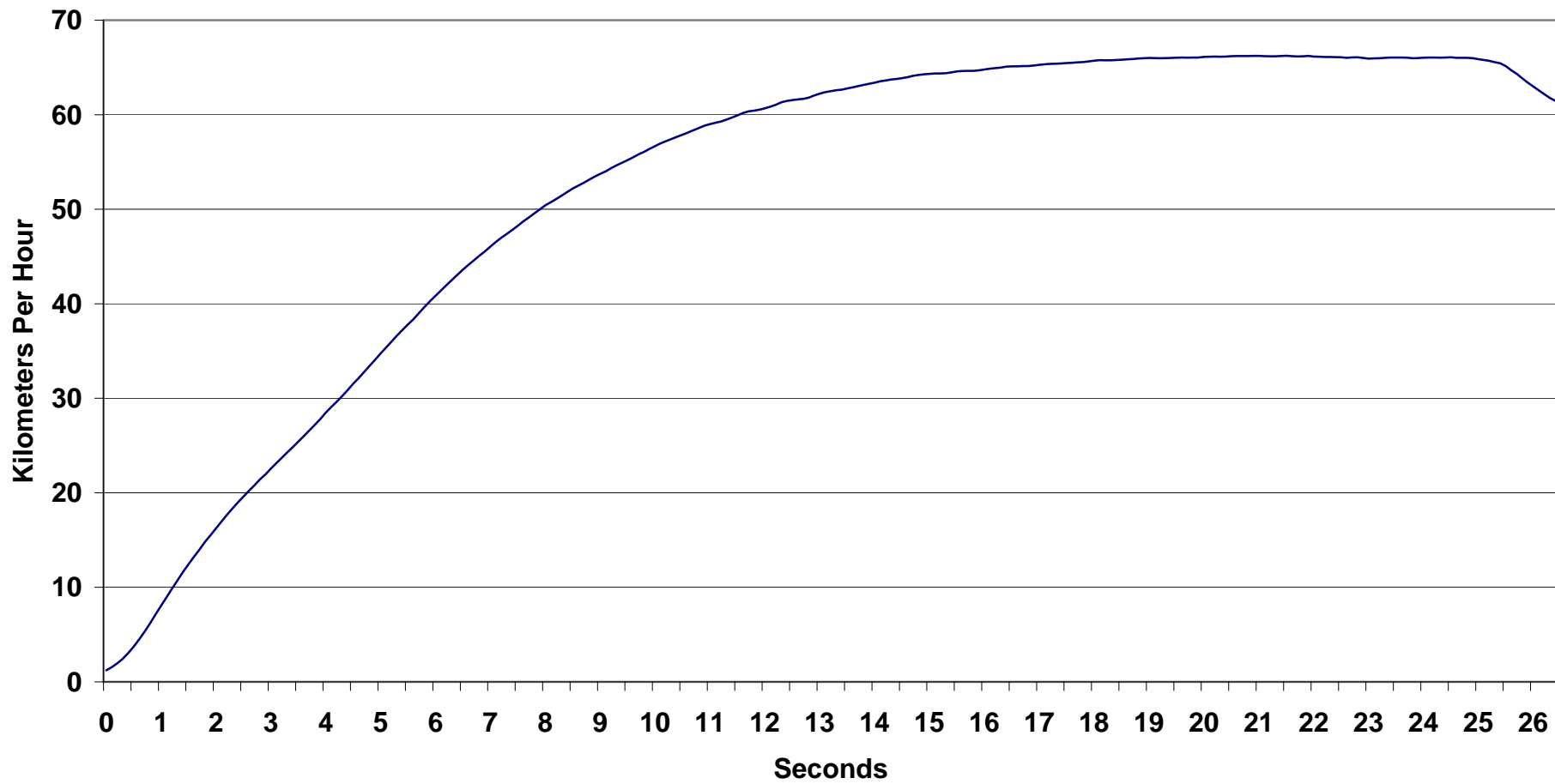
**\* Range in km's = 95% of fuel tank capacity**  
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SeaJay 5.6 Preda-King, F115AETX/09 13 x 17 K S-Steel (688)



■ Ave Km/h ■ Ave L/h ■ Ave Km/L

**SeaJay 5.6 Preda-King, F115AETX/09 13 x 17 K S-Steel (688)  
(Acceleration Graph)**



— Secs

**SeaJay 5.6 Preda-King, F115AETX/09 13 x 17 K S-Steel (688)**  
**Kilometers Per Litre over Boat Speed**

