



# Performance Bulletin

Test Date: 28th of April 2009



**F225ETX/09**

## SEAJAY 6.8M PRED-A-KING

Length	6.80m
Beam	2.50m
Dry Weight	1,025kg
Max Hp	230hp
Fuel Capacity	360L
Weight as Tested (approximate)	1,651kg

## F225AETX/09

Horsepower	165.5 kW (225ps) @ 5500rpm
Engine Type	24-Valve DOHC Direct-Action 60* V6
Weight (Inc. Prop)	269kg
Gear Ratio	2.00 (30/15)
Mounting Height	2nd Hole

## PROPELLER

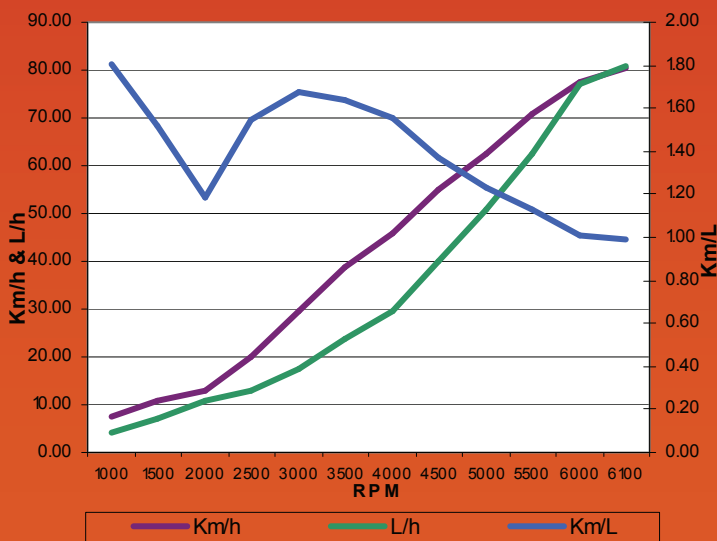
Series	M2 Black (6G5)
Diameter/ Pitch	13 3/4 x 19"
Part Number	6G5-45974-03-98

## TEST CONDITIONS

Crew	2
Air Temperature	24.9C
Wind Speed	7 Knots
Fuel	100L
Water Temperature	25C

## Performance Data

RPM	Km/h	L/h	Km/L
600	5.05	2.40	2.10
1000	7.50	4.15	1.81
1500	10.80	7.10	1.52
2000	13.05	11.00	1.19
2500	20.20	13.10	1.54
<u>3000</u>	<u>29.50</u>	<u>17.60</u>	<u>1.68</u>
3500	38.60	23.55	1.64
4000	45.95	29.60	1.55
4500	55.15	40.15	1.37
5000	62.70	50.80	1.23
5500	70.90	62.70	1.13
6000	77.35	76.95	1.01
6100	80.30	81.00	0.99



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)

## TEST PERFORMANCE SUMMARY

Max Ave Speed	80.30 Km/h or 43.28 Knots
Best Cruising Km/L	1.68 Km/L @ 3000rpm
Range, Based on 95% Fuel Capacity at Best Km/L	573 Km
Acceleration 10 - 50 Km/h	4.15 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.  
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All test data is recorded with the engine fully trimmed in (-4), until 5500 RPM, where possible.

## Results of Sea Trial

<b>Date:</b>	28-Apr-09	<b>Place:</b>	Brisbane River QLD	<b>Name:</b>	Grant Binskin & Glenn Gibson								
<b>Boat:</b>	6.8 Preda-King Plate Extreme		<b>Engine:</b>	F225AETX/09		<b>Conditions:</b>	Flat, Tidal						
<b>BB:</b>	SeaJay		<b>Serial No:</b>	1031200		<b>Weather:</b>	Sunny, Fine. (Cold).						
<b>Max Ave Speed:</b>	80.30	<b>Km/h</b>	<b>Output:</b>	165.5 @ 5500	<b>kW/Rpm</b>	<b>Wind Direction:</b>	NE						
<b>Max RPM Achieved:</b>	6100	<b>RPM</b>	<b>Prop DxP:</b>	13 3/4 x 19		<b>Wind Velocity:</b>	7	<b>Knots</b>					
<b>Max Horse Power</b>	230	<b>HP</b>	<b>Prop Type:</b>	Black M2 (6G5)		<b>Temperature:</b>	24.9	<b>Deg C</b>					
<b>Max Transom Weight:</b>	390	<b>Kgs</b>	<b>Weight:</b>	269	<b>Kgs</b>	<b>Humidity:</b>	29	<b>%</b>					
<b>Displacement:</b>	1,025	<b>Kgs</b>	<b>Gear Ratio:</b>	2	(30/15)	<b>Sea Water Temp:</b>	25	<b>Deg C</b>					
<b>Fuel/tank size:</b>	360	<b>Litres</b>	<b>Prop Pt #</b>	6G5-45974-03-98		<b>Pressure:</b>	1017.4	<b>Hpa</b>					
<b>Eng Height:</b>	2nd Hole		<b>Alt Output:</b>	45	<b>Amps</b>	<b>Max. Fuel Consumption:</b>	70	<b>L/h</b>					
	<b>Crew:</b>	2		<b>Persons</b>	<b>Fuel:</b>	100		<b>Kgs</b>					
	<b>Crew Wt:</b>	170		<b>Kgs</b>	<b>Stores: (Tools)</b>	50		<b>Kgs</b>					
	<b>Hull + Eng:</b>	1,294		<b>Kgs</b>	<b>Other: (Water)</b>	0		<b>Kgs</b>					
<b>L.O.A. =</b>	7.57M	<b>Beam =</b>	2.49M	<b>Safety Kit:</b>	35	<b>Kgs</b>	<b>Approx Total:</b>	1,651		<b>Kgs</b>			

Test	Engine Trim	Direction	RPM	Speed Km/h	Fuel L/h	Av Speed		Av Fuel Consumption		Kms per Litre	Av N.mpgal	N.M. per Litre	Range in Kms*	Prop Slip
						Km/h	Knots	L/h	G/PH					
1	-4	W	600	5.20	2.40	5.05	Km/h	2.40	L/h	2.10	5.15	1.13	720	42%
2	-4	E	600	4.90	2.40	2.72	Knots	0.53	G/PH					
1	-4	W	1000	8.00	4.00	7.50	Km/h	4.15	L/h	1.81	4.42	0.97	618	48%
2	-4	E	1000	7.00	4.30	4.04	Knots	0.91	G/PH					
1	-4	W	1500	11.10	7.10	10.80	Km/h	7.10	L/h	1.52	3.72	0.82	520	50%
2	-4	E	1500	10.50	7.10	5.82	Knots	1.56	G/PH					
1	-4	W	2000	13.30	10.90	13.05	Km/h	11.00	L/h	1.19	2.90	0.64	406	55%
2	-4	E	2000	12.80	11.10	7.03	Knots	2.42	G/PH					
1	-4	W	2500	20.30	12.80	20.20	Km/h	13.10	L/h	1.54	3.77	0.83	527	44%
2	-4	E	2500	20.10	13.40	10.89	Knots	2.89	G/PH					
1	-4	W	3000	29.90	16.70	29.50	Km/h	17.60	L/h	1.68	4.10	0.90	573	32%
2	-4	E	3000	29.10	18.50	15.90	Knots	3.88	G/PH					
1	-4	W	3500	38.60	23.40	38.60	Km/h	23.55	L/h	1.64	4.01	0.88	561	24%
2	-4	E	3500	38.60	23.70	20.81	Knots	5.19	G/PH					
1	-4	W	4000	47.10	29.50	45.95	Km/h	29.60	L/h	1.55	3.80	0.84	531	21%
2	-4	E	4000	44.80	29.70	24.77	Knots	6.52	G/PH					
1	-4	W	4500	57.20	39.90	55.15	Km/h	40.15	L/h	1.37	3.36	0.74	470	15%
2	-4	E	4500	53.10	40.40	29.73	Knots	8.84	G/PH					
1	-4	W	5000	63.40	50.60	62.70	Km/h	50.80	L/h	1.23	3.02	0.67	422	13%
2	-4	E	5000	62.00	51.00	33.80	Knots	11.19	G/PH					
1	-4	W	5500	71.20	62.40	70.90	Km/h	62.70	L/h	1.13	2.77	0.61	6553	11%
1	-4	E	5500	70.60	63.00	38.22	Knots	13.81	G/PH					
2	Half Trim	W	6000	77.50	76.40	77.35	Km/h	76.95	L/h	1.01	2.46	0.54	0	11%
2	Half Trim	E	6000	77.20	77.50	41.69	Knots	16.95	G/PH					
1	Full Trim	W	6100	80.90	80.10	80.30	Km/h	81.00	L/h	0.99	2.43	0.53	339	9%
2	Full Trim	E	6100	79.70	81.90	43.28	Knots	17.84	G/PH					

**Turning:** Good height, zero ventilation.

**General Operation:** Engine height could go up 1 hole for test purposes only. Then larger diameter SW2 prop could be selected.

**Acceleration 10 - 50 Km/h:** 4.15 **Seconds over 37.00 meters.**

**Comments:** 10 to 20 (.81 secs / 3.39m) to 30 (1.75 secs / 9.95m) to 40 (2.86 secs / 20.7m).

Boat handled exceptional, good all round, good prop at std black M2 with reaching 6100 in 24.2 secs.

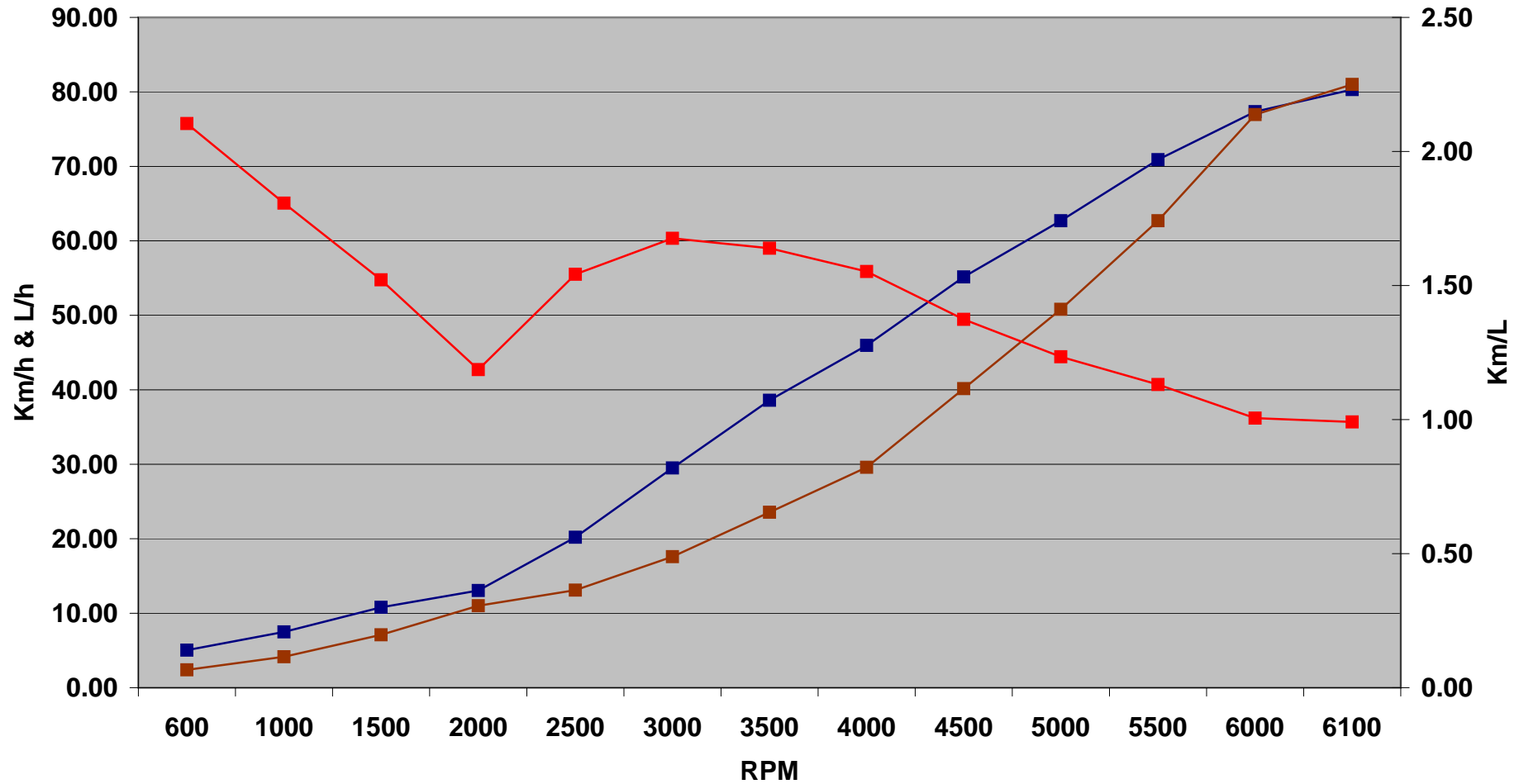
**12.2L of fuel used over 15.47Kms = 1.27Km/L average (testing conditions) @ 35.9Km/h ave speed.**

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

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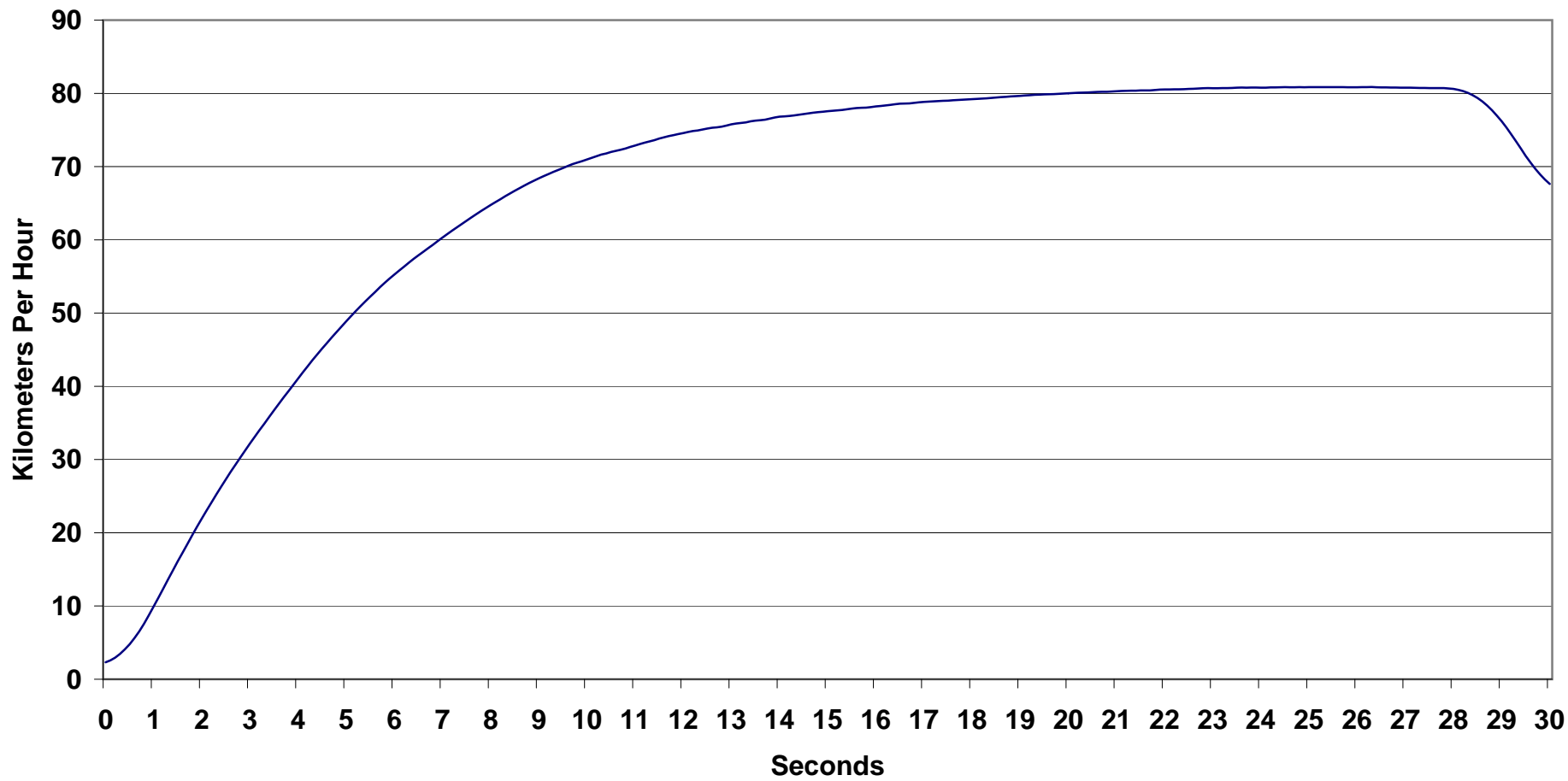
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### SeaJay 6.8 Preda-King, F225AETX/09 13 3/4 x 19" M2 (6G5)



■ Ave Km/h ■ Ave L/h ■ Ave Km/L

**SeaJay 6.8 Preda-King, F225AETX/09 13 3/4 x 19" M2 (6G5)  
(Acceleration Graph)**



— Km/h

