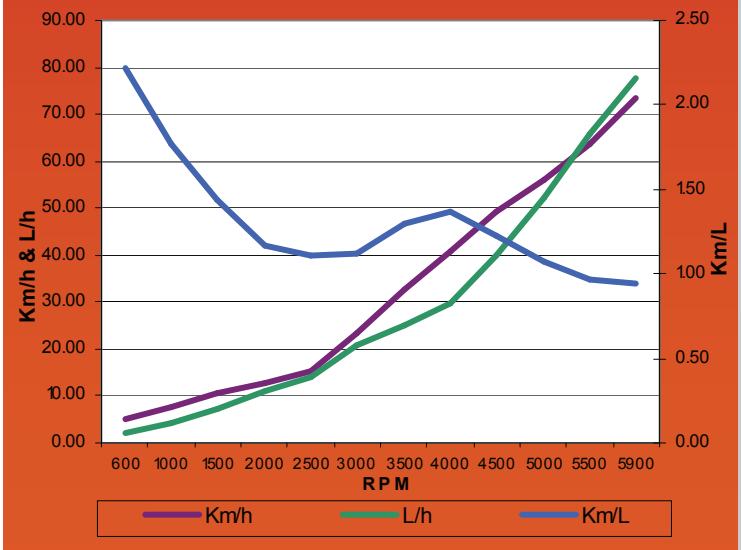
Performance Bulletin

Test Date: 5th of August 2009

F225ETX/09

Performance Data

RPM	Ave Km/h	Ave L/h	Ave Km/L
600	5.10	2.30	2.22
1000	7.70	4.35	1.77
1500	10.50	7.30	1.44
2000	12.75	10.95	1.16
2500	15.35	13.90	1.10
3000	23.30	20.85	1.12
3500	32.80	25.20	1.30
4000	**40.90**	**29.90**	**1.37**
4500	49.25	40.10	1.23
5000	56.00	52.10	1.07
5500	63.65	66.00	0.96
5900	73.30	77.60	0.94



Test Performed by certified Yamaha Technicians

Boat Manufactured by:
Sea Jay - 2 Maddison Court, Bundaberg QLD 4670
07 4152 2111 - www.seajayboats.com.au

SEAJAY 680 PURSUIT

Length	6.80m
Beam	2.50m
Dry Weight	1,025kg
Max Hp	225hp
Fuel Capacity	360L
Weight as Tested (approximate)	2,015kg

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 ¾ x 19"
Part Number	6G5-45974-03-98

TEST CONDITIONS

Crew	2
Air Temperature	20.9° C
Wind Speed	>5 Knots
Fuel	100L
Water Temperature	20.2° C

TEST PERFORMANCE SUMMARY

Max Ave Speed	73.30 Km/h or 39.51 Knots
Best Cruising Km/L	1.37 Km/L @ 4000rpm
Range, Based on 95% Fuel Capacity at Best Km/L	468 Km
Acceleration 10 - 50 Km/h	5.89 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

Date:	5-Aug-09	**Place:**	Brisbane River		**Name:**	Grant Binskin & Glenn Gibson			
Boat:	Pursuit 680		**Engine:**	F225AETX/09		**Conditions:**	Tidal River.		
BB:	Sea Jay		**Serial No:**	1031200		**Weather:**	Hot, Sunny		
Max Ave Speed:	73.30	**Km/h**	**Output:**	165.5 @ 5500	**kW/Rpm**	**Wind Direction:**	WSW		
Max RPM Achieved:	5900	**RPM**	**Prop DxP:**	**13 ¾ x**	**19**	**Wind Velocity:**	>5	**Knots**	
Max Horse Power	225	**HP**	**Prop Type:**	**Black M2 (6G5)**		**Temperature:**	20.9º	**Deg C**	
Max Transom Weight:	280	**Kgs**	**Weight:**	269	**Kgs**	**Humidity:**	47	**%**	
Displacement:	1,025	**Kgs**	**Gear Ratio:**	2.00	(30/15)	**Sea Water Temp:**	20.2º	**Deg C**	
Fuel/tank size:	360	**Litres**	**Prop Pt #**	6G5-45974-03-98		**Pressure:**	1020.6	**Hpa**	
Eng Height:	**2nd Hole**		**Alt Output:**	45	**Amps**	**Max. Fuel Consumption:**	77.60	**L/h**	
			**Crew:**	2	**Persons**	**Fuel:**	100	**Kgs**	
			Crew Wt:	180	**Kgs**	**Stores:** **(Tools)**	100	**Kgs**	
			Hull + Eng:	1,563	**Kgs**	**Other:** **(Water)**	50	**Kgs**	
L.O.A. =	7.57M	**Beam =**	2.49M	**Safety Kit:**	20	**Kgs**	**Approx Total:**	2,015	**Kgs**

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
1	-4	W	**600**	6.90	2.30	5.10	Km/h	2.30	L/h	2.22	5.43	1.20	758	41%
2	-4	E	600	3.30	2.30	2.75	*Knots*	0.51	*G/PH*					
1	-4	W	**1000**	9.50	4.30	7.70	Km/h	4.35	L/h	1.77	4.33	0.95	605	47%
2	-4	E	1000	5.90	4.40	4.15	*Knots*	0.96	*G/PH*					
1	-4	W	**1500**	12.40	7.10	10.50	Km/h	7.30	L/h	1.44	3.52	0.78	492	52%
2	-4	E	1500	8.60	7.50	5.66	*Knots*	1.61	*G/PH*					
1	-4	W	**2000**	14.40	10.80	12.75	Km/h	10.95	L/h	1.16	2.85	0.63	398	56%
2	-4	E	2000	11.10	11.10	6.87	*Knots*	2.41	*G/PH*					
1	-4	W	**2500**	16.70	13.50	15.35	Km/h	13.90	L/h	1.10	2.70	0.60	378	58%
2	-4	E	2500	14.00	14.30	8.27	*Knots*	3.06	*G/PH*					
1	-4	W	**3000**	23.80	20.80	23.30	Km/h	20.85	L/h	1.12	2.73	0.60	382	46%
2	-4	E	3000	22.80	20.90	12.56	*Knots*	4.59	*G/PH*					
1	-4	W	**3500**	33.60	25.00	32.80	Km/h	25.20	L/h	1.30	3.19	0.70	445	35%
2	-4	E	3500	32.00	25.40	17.68	*Knots*	5.55	*G/PH*					
1	-4	W	**4000**	43.40	29.80	40.90	Km/h	29.90	L/h	1.37	3.35	0.74	468	29%
2	-4	E	4000	38.40	30.00	22.05	*Knots*	6.59	*G/PH*					
1	-4	W	**4500**	52.10	39.30	49.25	Km/h	40.10	L/h	1.23	3.01	0.66	420	24%
2	-4	E	4500	46.40	40.90	26.55	*Knots*	8.83	*G/PH*					
1	-4	W	**5000**	57.70	52.00	56.00	Km/h	52.10	L/h	1.07	2.63	0.58	368	23%
2	-4	E	5000	54.30	52.20	30.18	*Knots*	11.48	*G/PH*					
1	Half Trim	W	**5500**	66.10	65.60	63.65	Km/h	66.00	L/h	0.96	2.36	0.52	330	20%
1	Half Trim	E	5500	61.20	66.40	34.31	*Knots*	14.54	*G/PH*					
2	Full Trim	W	**5900**	75.90	77.00	73.30	Km/h	77.60	L/h	0.94	2.31	0.51	323	14%
2	Full Trim	E	5900	70.70	78.20	39.51	*Knots*	17.09	*G/PH*					

Turning:	Motor at 3/4 trim can be turned hard without ventilation. Needs test 2 with motor lifted 1 or 2 holes.
General Operation:	Awesome unit, good hp to boat combination.
Acceleration 10 - 50 Km/h:	**5.89 secs** **over 54.20 meters.**
Comments:	From idle in gear (4 Km/h) to WOT (74Km/h) = 20.90 secs over 321.22 meters.

Test 1 of 2. Need to test 1 hole up and maybe 1 prop size down, max RPM stretched was 5900rpm.

10.1L of fuel used over 11.0Kms = 1.09Km/L average (testing conditions) @ 25.8Km/h ave speed.

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

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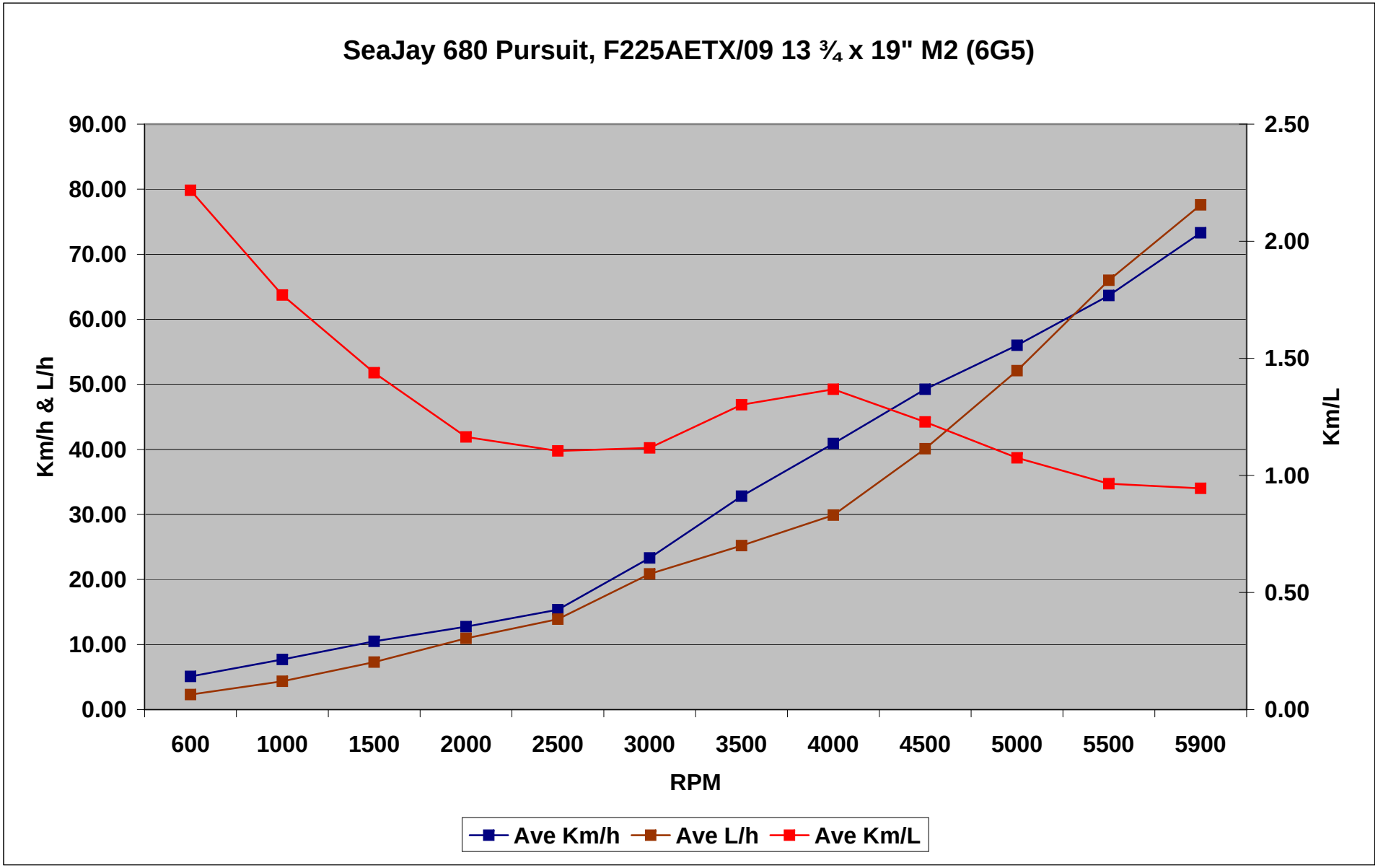
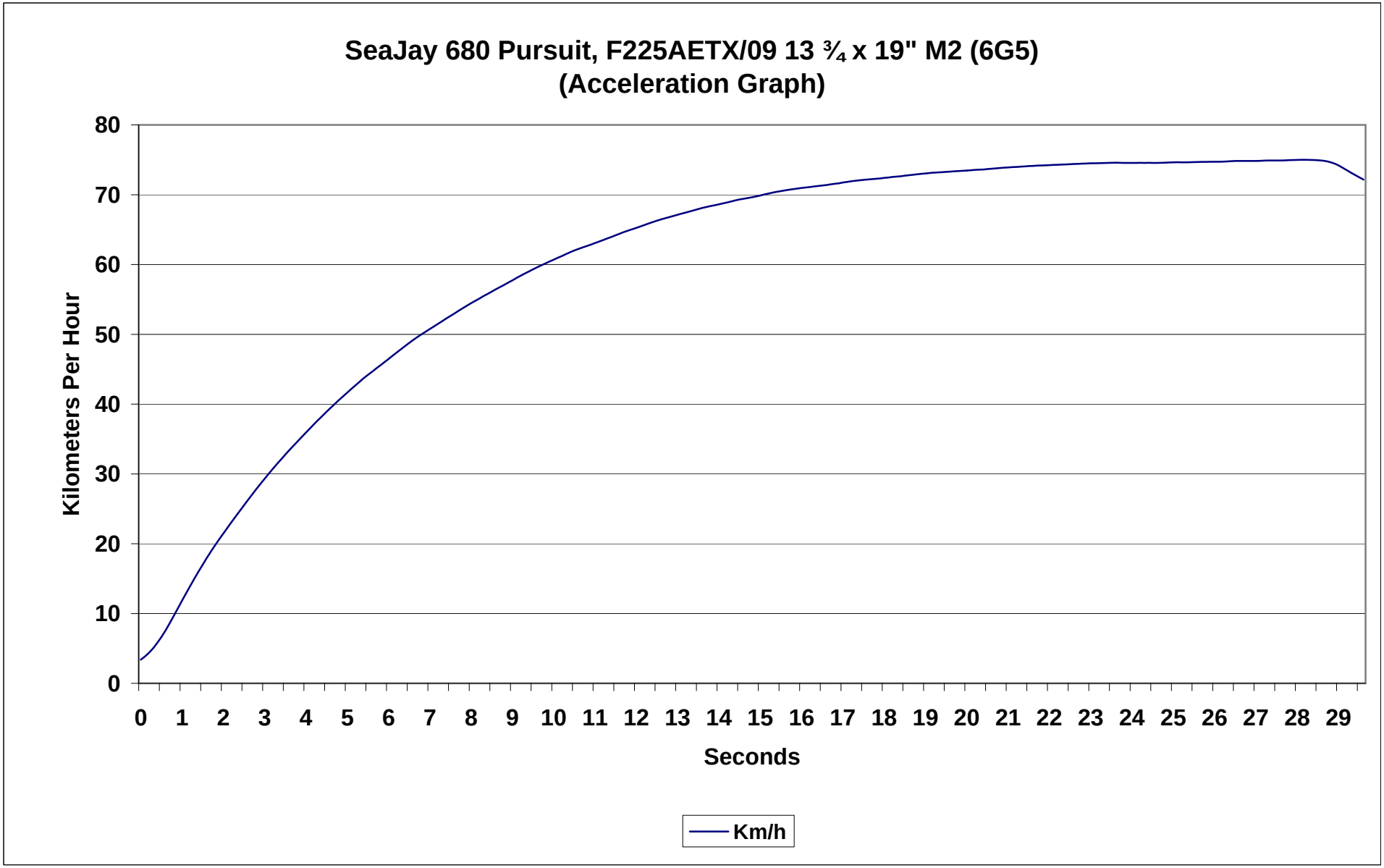

SeaJay 680 Pursuit, F225AETX/09 13 ¾ x 19" M2 (6G5)
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Km/h & L/h
2.50
2.00
1.50
1.00
0.50
0.00
Km/L
600
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
5900
RPM
Ave Km/h
Ave L/h
Ave Km/L


SeaJay 680 Pursuit, F225AETX/09 13 ¾ x 19" M2 (6G5)
(Acceleration Graph)
Kilometers Per Hour
80
70
60
50
40
30
20
10
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29
Seconds
Km/h


SEA JAY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