Results of Sea Trial

Date:	12-Feb-09	**Place:**	Scarborough QLD	**Name:**	Glenn Gibson, Jason Gibson + 1		
Boat:	Ocean Angler 244	**Engine:**	F350AETX/09	**Conditions:**	CHOPPY		
BB:	Allison Boat Company	**Serial No:**	1003989	**Weather:**	OVERCAST, WINDY		
Max Ave Speed:	96.9 Km/h	**Output:**	350@5500 HP/Rpm	**Wind Direction:**	SSW		
Max RPM Achieved:	6100 RPM	**Prop DxP:**	**15 1/2 x 21"**	**Wind Velocity:**	5 to 10	**Knots**	
Max Horsepower:	350 HP	**Prop Type:**	**Salt Water X**	**Temperature:**	22.1	**Deg C**	
Max Transom Weight:	390 Kgs	**Weight:**	365 Kgs	**Humidity:**	78	**%**	
Displacement:	1,550 Kgs	**Gear Ratio**	1.73 (26/15)	**Sea Water Temp:**	24.8	**Deg C**	
Fuel/tank size:	350 Litres	**Prop Slip:**	14%	**Pressure:**	1010.8	**Hpa**	
Eng Height:	**Top Hole**	**Prop Pt #**	6AW-45974-00	**Fuel Vacuum Test:**	-12kpa @ 135L/h		
Crew Arrangement		**Crew:**	3 **Persons**	**Fuel:**	350	**Kgs**	
		Crew Wt:	270 **Kgs**	**Stores: (Tools)**	100	**Kgs**	
		Hull + Eng:	1,923 **Kgs**	**Other: (Water)**	20	**Kgs**	
L.O.A. = 7.40M	**Beam =** 2.50M	**Safety Kit:**	20 **Kgs**	**Approx Total:**	2,686	**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*
1	-4	W	**600**	5.30	3.30	5.75	Km/h	3.55	L/h	1.62	3.96	0.87	539
2	-4	E	600	6.20	3.80	3.10	*Knots*	0.78	*G/PH*				
1	-4	W	**1000**	8.30	5.80	8.70	Km/h	5.75	L/h	1.51	3.70	0.82	503
2	-4	E	1000	9.10	5.70	4.69	*Knots*	1.27	*G/PH*				
1	-4	W	**1500**	11.70	11.10	11.90	Km/h	10.95	L/h	1.09	2.66	0.59	361
2	-4	E	1500	12.10	10.80	6.41	*Knots*	2.41	*G/PH*				
1	-4	W	**2000**	13.70	19.50	14.10	Km/h	19.55	L/h	0.72	1.76	0.39	240
2	-4	E	2000	14.50	19.60	7.60	*Knots*	4.31	*G/PH*				
1	-4	W	**2500**	15.40	27.90	16.95	Km/h	28.25	L/h	0.60	1.47	0.32	200
2	-4	E	2500	18.50	28.60	9.14	*Knots*	6.22	*G/PH*				
1	-4	W	**3000**	38.30	36.00	38.90	Km/h	35.50	L/h	1.10	2.68	0.59	364
2	-4	E	3000	39.50	35.00	20.97	*Knots*	7.82	*G/PH*				
1	-4	W	**3500**	52.90	40.90	53.00	Km/h	41.20	L/h	1.29	3.15	0.69	428
2	-4	E	3500	53.10	41.50	28.57	*Knots*	9.07	*G/PH*				
1	-4	W	**4000**	61.90	53.00	62.20	Km/h	53.70	L/h	1.16	2.83	0.62	385
2	-4	E	4000	62.50	54.40	33.53	*Knots*	11.83	*G/PH*				
1	-4	W	**4500**	70.90	67.90	71.10	Km/h	66.15	L/h	1.07	2.63	0.58	357
2	-4	E	4500	71.30	64.40	38.32	*Knots*	14.57	*G/PH*				
1	-4	W	**5000**	81.10	88.00	81.30	Km/h	88.10	L/h	0.92	2.26	0.50	307
2	-4	E	5000	81.50	88.20	43.82	*Knots*	19.41	*G/PH*				
1	-4	W	**5500**	90.70	105.80	91.50	Km/h	103.85	L/h	0.88	2.16	0.47	293
2	-4	E	5500	92.30	101.90	49.32	*Knots*	22.87	*G/PH*				
1	Half Trim	W	**6000**	93.00	117.60	94.55	Km/h	116.75	L/h	0.81	1.98	0.44	269
2	Half Trim	E	6000	96.10	115.90	50.96	*Knots*	25.72	*G/PH*				
1	Full trim out	W	**6100**	96.60	129.50	96.90	Km/h	129.70	L/h	0.75	1.83	0.40	248
2	Full trim out	E	6100	97.20	129.90	52.23	*Knots*	28.57	*G/PH*				

Turning: Did not ventilate, good engine height on pod, 1" up each 12" out.

General Operation: Good, able to use 3/4 trim angle with 21" prop, full trim with larger diameter 19" prop.

Acceleration 10 - 50 Km/h: **6.68** **Seconds over 56.03 meters.**

Comments: 10 - 50 Km/h with 19" prop was 5.27 secs over 44.67 meters.

19" prop was better user friendly, heaps more power for a loaded boat but less top end. This is a good speed set up with 21" prop.

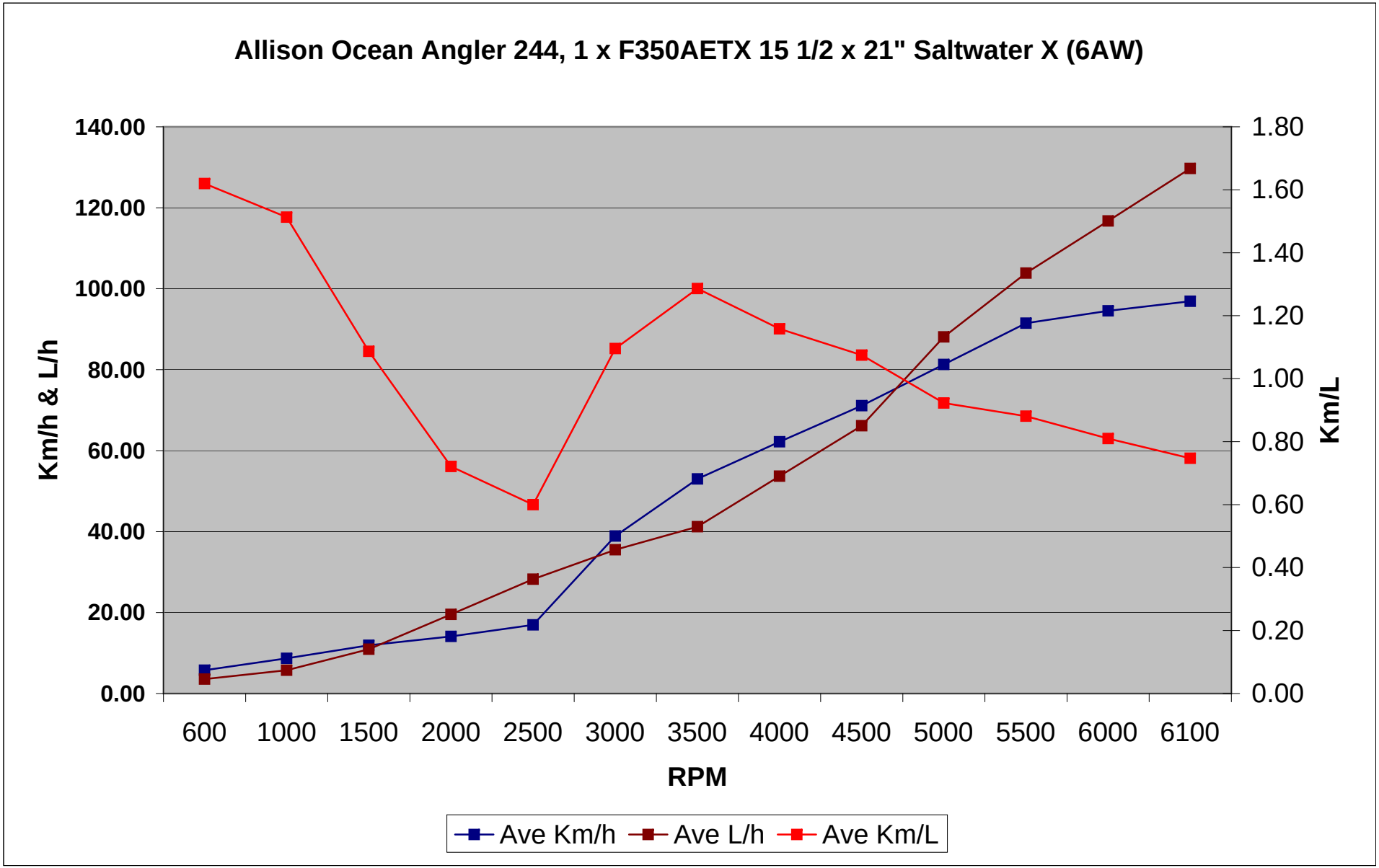
32.1 L of fuel used over 27.83 Km = 0.87 Km/L (testing conditions averaged).

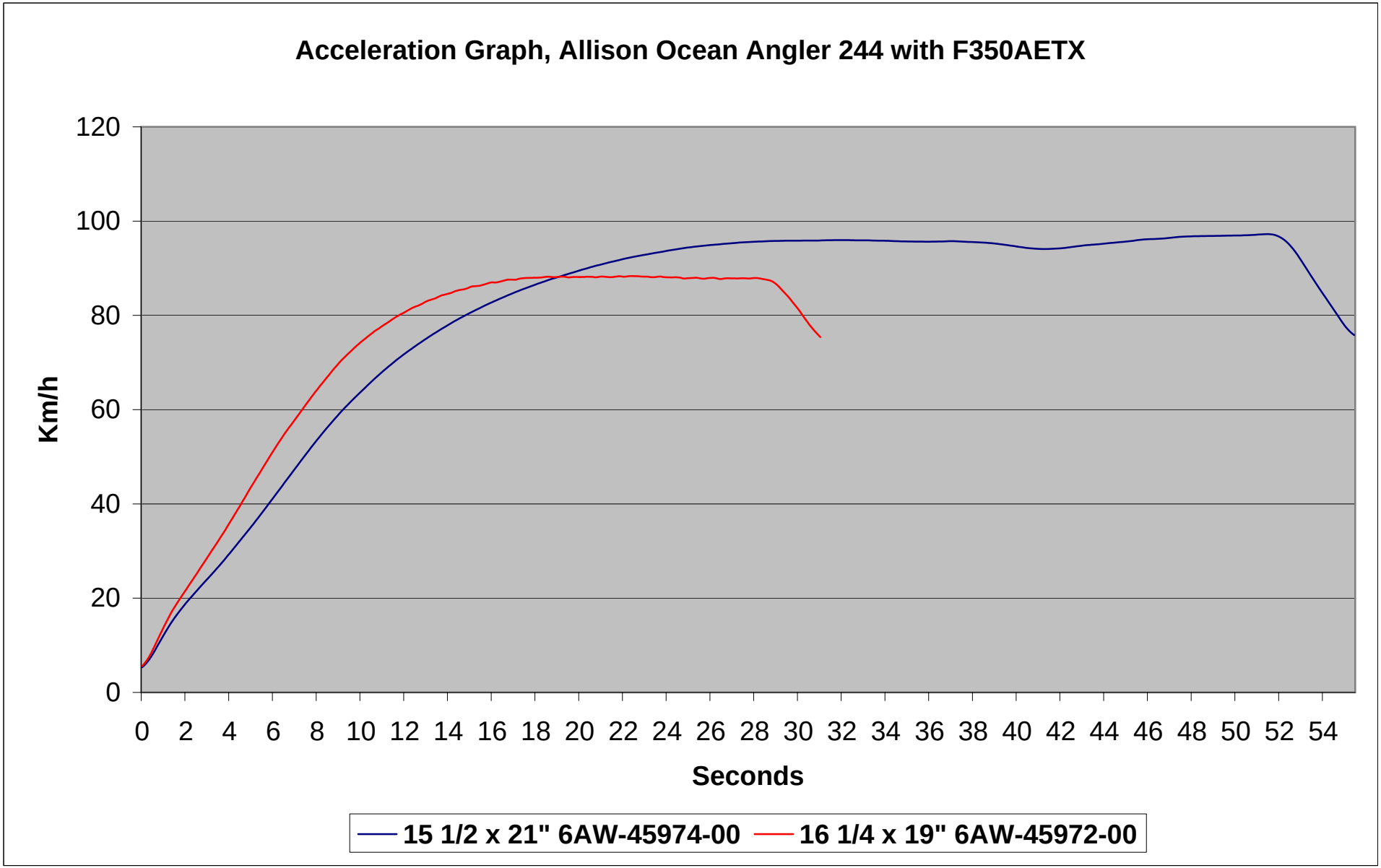
Averaged test speed = 32.5Km/h.

*** 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.


Allison Ocean Angler 244, 1 x F350AETX 15 1/2 x 21" Saltwater X (6AW)
Km/h & L/h
140.00
120.00
100.00
80.00
60.00
40.00
20.00
0.00
Km/L
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
600
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
6100
RPM
Ave Km/h
Ave L/h
Ave Km/L


Acceleration Graph, Allison Ocean Angler 244 with F350AETX
120
100
80
60
40
20
0
Km/h
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54
Seconds
15 1/2 x 21" 6AW-45974-00
16 1/4 x 19" 6AW-45972-00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SJ627Q


SJ627Q
Lady Susan


Lady Susan


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UP
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