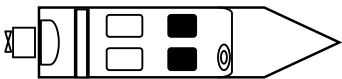


Results of Sea Trial

Date:	27-Jan-09	Place:	Brisbane River	Name:	Glenn Gibson & Dave Green						
Boat:	10M Naiad (Cabin Boat)			Engine:	F350AETU		Conditions:	WINDY, CHOPPY, WIND AGAINST TIDE			
BB:	Woody Marine			Serial No:	1001043 & 1000700		Weather:	OVERCAST			
Max Ave Speed:	88.60	Km/h	Output:	350@5500 HP/Rpm		Wind Direction:	SE				
Max RPM Achieved:	6100	RPM	Prop DxP:	16 1/4 x 19"		Wind Velocity:	10 to 15		Knots		
Deadrise:	23	Degrees	Prop Type:	Salt Water X		Temperature:	25.3		Deg C		
Max Transom Weight:	750	Kgs	Weight:	373 Kgs		Humidity:	82		%		
Displacement:	3,600	Kgs	Gear Ratio	1.73 (26/15)		Sea Water Temp:	27.2		Deg C		
Fuel/tank size:	550	Litres	Prop Slip:	13%		Pressure:	1016.5		Hpa		
Eng Height:	2 UP			Prop Pt #	6AW-45972-00		Fuel Vacuum Test:	Not Checked			
Crew Arrangement				Crew:	2	Persons	Fuel:	200		Kgs	
				Crew Wt:	180	Kgs	Stores: (Tools)	338		Kgs	
				Hull + Eng:	2,800	Kgs	Other: (Water)	30		Kgs	
L.O.A. =	10.0M	Beam =	3.2M	Safety Kit:	50	Kgs	Approx Total:	3,600		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*
						Km/h	Knots	L/h	G/PH				
1	-4	W	600	8.20	6.10	7.20	Km/h	6.20	L/h	1.16	2.84	0.63	607
2	-4	E	600	6.20	6.30	3.88	Knots	1.37	G/PH				
1	-4	W	1000	9.80	11.00	9.70	Km/h	10.75	L/h	0.90	2.21	0.49	471
2	-4	E	1000	9.60	10.50	5.23	Knots	2.37	G/PH				
1	-4	W	1500	12.50	18.60	13.75	Km/h	19.05	L/h	0.72	1.77	0.39	377
2	-4	E	1500	15.00	19.50	7.41	Knots	4.20	G/PH				
1	-4	W	2000	16.20	32.40	16.45	Km/h	32.20	L/h	0.51	1.25	0.28	267
2	-4	E	2000	16.70	32.00	8.87	Knots	7.09	G/PH				
1	-4	W	2500	26.20	43.30	26.55	Km/h	46.15	L/h	0.58	1.41	0.31	301
2	-4	E	2500	26.90	49.00	14.31	Knots	10.17	G/PH				
1	-4	W	3000	38.70	62.40	38.60	Km/h	63.65	L/h	0.61	1.48	0.33	317
2	-4	E	3000	38.50	64.90	20.81	Knots	14.02	G/PH				
1	-4	W	3500	47.80	71.70	48.40	Km/h	73.75	L/h	0.66	1.61	0.35	343
2	-4	E	3500	49.00	75.80	26.09	Knots	16.24	G/PH				
1	-4	W	4000	56.70	91.90	57.10	Km/h	92.80	L/h	0.62	1.51	0.33	321
2	-4	E	4000	57.50	93.70	30.78	Knots	20.44	G/PH				
1	-4	W	4500	66.60	116.80	65.45	Km/h	116.55	L/h	0.56	1.37	0.30	293
2	-4	E	4500	64.30	116.30	35.28	Knots	25.67	G/PH				
1	-4	W	5000	70.80	138.20	72.10	Km/h	146.90	L/h	0.49	1.20	0.26	256
2	-4	E	5000	73.40	155.60	38.86	Knots	32.36	G/PH				
1	-4	W	5500	80.00	198.00	79.75	Km/h	196.00	L/h	0.41	1.00	0.22	213
2	-4	E	5500	79.50	194.00	42.99	Knots	43.17	G/PH				
1	Half Trim	W	6000	87.10	252.00	87.40	Km/h	254.60	L/h	0.34	0.84	0.19	179
2	Half Trim	E	6000	87.70	257.20	47.11	Knots	56.08	G/PH				
1	Full trim out	W	6100	88.40	254.00	88.60	Km/h	256.30	L/h	0.35	0.85	0.19	181
2	Full trim out	E	6100	88.80	258.60	47.76	Knots	56.45	G/PH				

Turning: Turns good, engine height OK.

General Operation: Motor ventilates in following sea. Engine height looks ok.

Acceleration 10 - 50 Km/h: 4.39 **Seconds (1.18 secs faster than 21" props)**

Comments: Test 2 of 2.

Awesome prop change from 21" to 19", zero ventilation encountered at 3000 to 4000 unlike 21". Good positive acceleration.

Prop change also allows boat to reach WOT 6100rpm without stress while boat unloaded.

77.19Klm & 146.3L used testing = ave 0.53 Km/L @ ave speed 42.4Klm/h over 1.49Hrs.

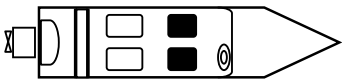
*** Range in km's = 95% of fuel tank capacity**

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.

Results of Sea Trial

Date:	27-Jan-09	Place:	Brisbane River	Name:	Glenn Gibson & Dave Green						
Boat:	10M Naiad (Cabin Boat)			Engine:	F350AETU		Conditions:	WINDY, CHOPPY, WIND AGAINST TIDE			
BB:	Woody Marine			Serial No:	1001043 & 1000700		Weather:	OVERCAST			
Max Ave Speed:	96.30	Km/h		Output:	350@5500 HP/Rpm		Wind Direction:	SE			
Max RPM Achieved:	6000	RPM		Prop DxP:	15 1/2 x 21"		Wind Velocity:	10 to 15 Knots			
Deadrise:	23	Degrees		Prop Type:	Salt Water X		Temperature:	25.3 Deg C			
Max Transom Weight:	750	Kgs		Weight:	373 Kgs		Humidity:	82 %			
Displacement:	3,600	Kgs		Gear Ratio	1.73 (26/15)		Sea Water Temp:	27.2 Deg C			
Fuel/tank size:	550	Litres		Prop Slip:	12%		Pressure:	1016.5 Hpa			
Eng Height:	2 UP			Prop Pt #	6AW-45974-00		Fuel Vacuum Test:	Not Checked			
Crew Arrangement				Crew:	2	Persons	Fuel:	200	Kgs		
				Crew Wt:	180	Kgs	Stores: (Tools)	338	Kgs		
				Hull + Eng:	2,800	Kgs	Other: (Water)	30	Kgs		
				Safety Kit:	50	Kgs	Approx Total:	3,600		Kgs	
L.O.A. =	10.0M	Beam =	3.2M								

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*
						Km/h	Knots	L/h	G/PH				
1	-4	W	600	7.40	7.10	7.35	Km/h	6.95	L/h	1.06	2.59	0.57	553
2	-4	E	600	7.30	6.80	3.96	Knots	1.53	G/PH				
1	-4	W	1000	9.60	11.40	9.65	Km/h	11.15	L/h	0.87	2.12	0.47	452
2	-4	E	1000	9.70	10.90	5.20	Knots	2.46	G/PH				
1	-4	W	1500	13.20	20.10	14.15	Km/h	19.70	L/h	0.72	1.76	0.39	375
2	-4	E	1500	15.10	19.30	7.63	Knots	4.34	G/PH				
1	-4	W	2000	16.60	35.50	17.45	Km/h	34.95	L/h	0.50	1.22	0.27	261
2	-4	E	2000	18.30	34.40	9.41	Knots	7.70	G/PH				
1	-4	W	2500	24.60	48.00	23.80	Km/h	48.15	L/h	0.49	1.21	0.27	258
2	-4	E	2500	23.00	48.30	12.83	Knots	10.61	G/PH				
1	-4	W	3000	36.80	64.40	37.10	Km/h	62.90	L/h	0.59	1.44	0.32	308
2	-4	E	3000	37.40	61.40	20.00	Knots	13.85	G/PH				
1	-4	W	3500	51.50	85.20	50.00	Km/h	84.25	L/h	0.59	1.45	0.32	310
2	-4	E	3500	48.50	83.30	26.95	Knots	18.56	G/PH				
1	-4	W	4000	61.50	105.70	61.00	Km/h	100.70	L/h	0.61	1.48	0.33	317
2	-4	E	4000	60.50	95.70	32.88	Knots	22.18	G/PH				
1	-4	W	4500	69.40	133.10	70.35	Km/h	128.60	L/h	0.55	1.34	0.29	286
2	-4	E	4500	71.30	124.10	37.92	Knots	28.33	G/PH				
1	-4	W	5000	79.40	183.00	79.55	Km/h	174.25	L/h	0.46	1.12	0.25	239
2	-4	E	5000	79.70	165.50	42.88	Knots	38.38	G/PH				
1	-4	W	5500	84.70	221.60	86.15	Km/h	217.80	L/h	0.40	0.97	0.21	207
2	-4	E	5500	87.60	214.00	46.43	Knots	47.97	G/PH				
1	Half Trim	W	5800	93.70	248.00	92.90	Km/h	248.00	L/h	0.37	0.92	0.20	196
2	Half Trim	E	5800	92.10	248.00	50.07	Knots	54.63	G/PH				
1	Full trim out	W	5900	98.10	252.60	96.30	Km/h	251.10	L/h	0.38	0.94	0.21	200
2	Full trim out	E	5900	94.50	249.60	51.91	Knots	55.31	G/PH				

Turning: Turns good, engine height OK.

General Operation: Motor ventilates in following sea. Engine height looks ok.

Acceleration 10 - 50 Km/h: 5.57 **Seconds (1.18 secs slower than 19" props)**

Comments: Test 1 of 2.

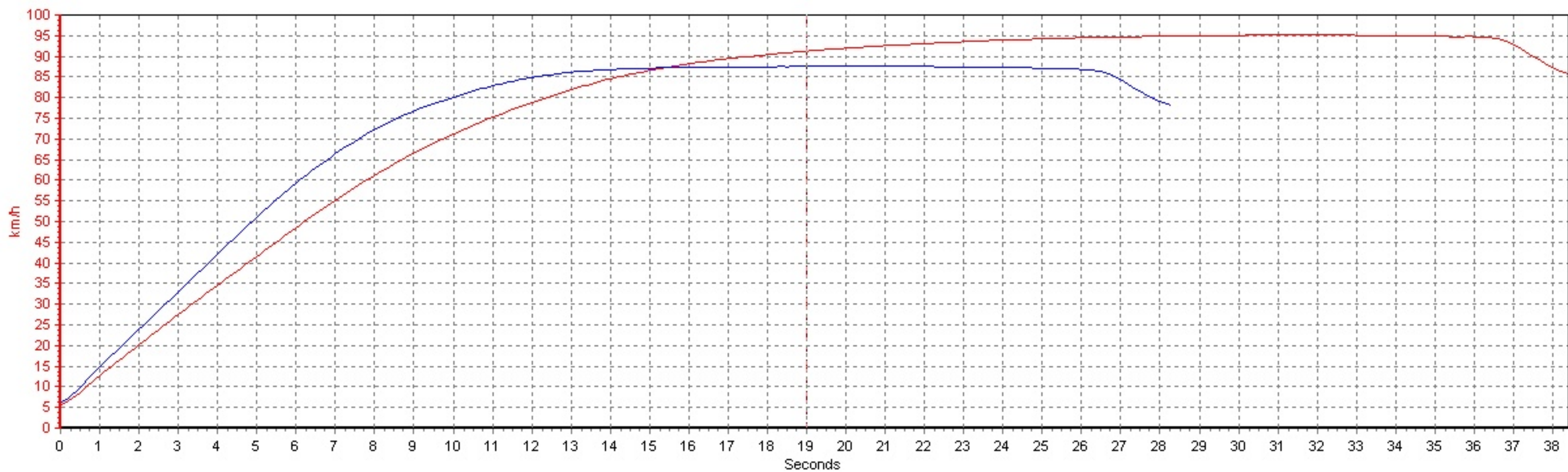
Struggles to get to 6100 RPM, good max speed but prop slipped through mid range & in following sea. Will test with larger diameter 21" prop in test 2 of 2.

77.19Klm & 146.3L used testing = ave 0.53 Km/L @ ave speed 42.4Klm/h over 1.49Hrs.

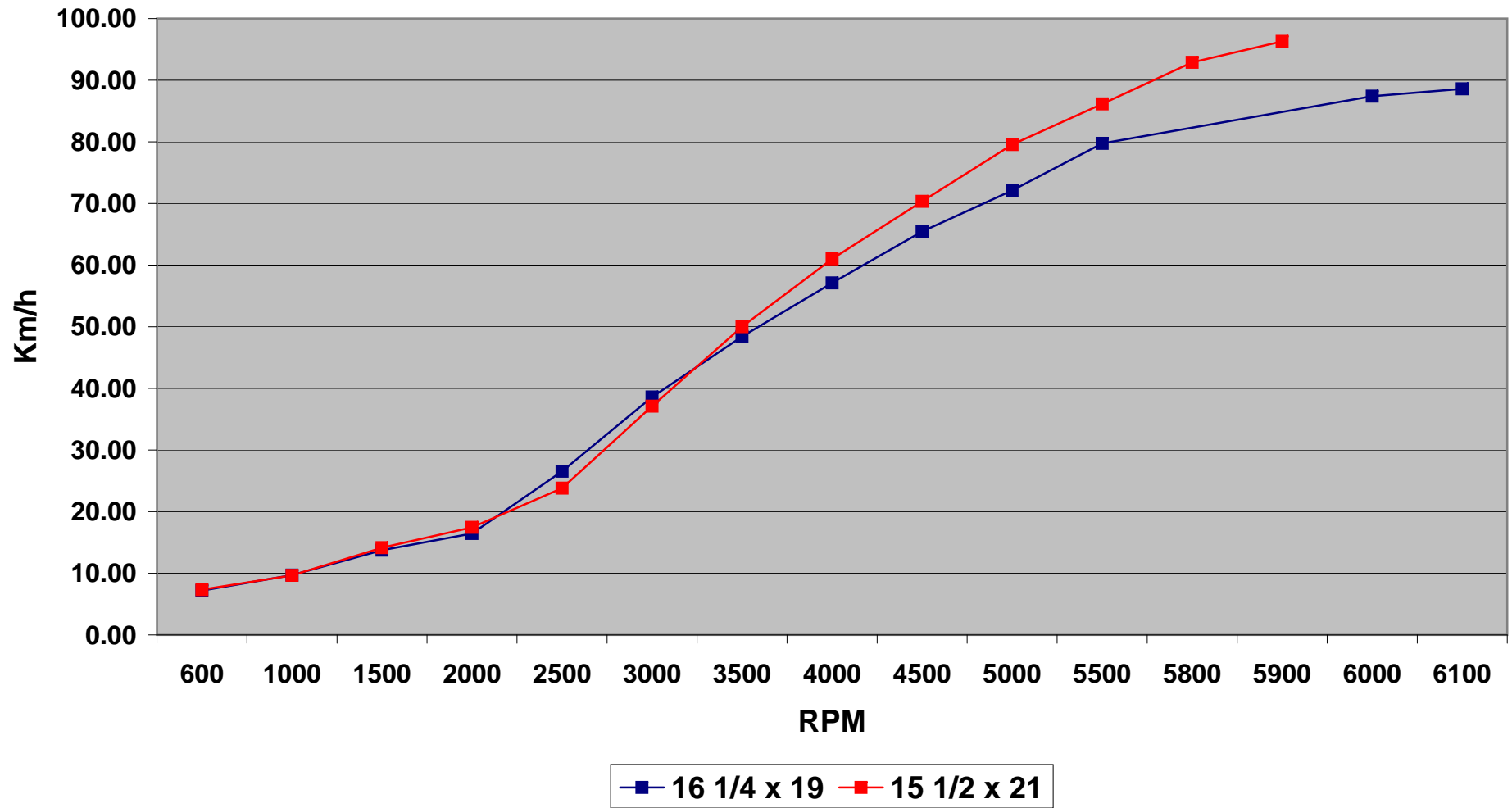
*** Range in km's = 95% of fuel tank capacity**

Data may vary due to changes in weather, tides, boat load, hull and prop conditions, temperature, atmospheric pressure and wind direction.

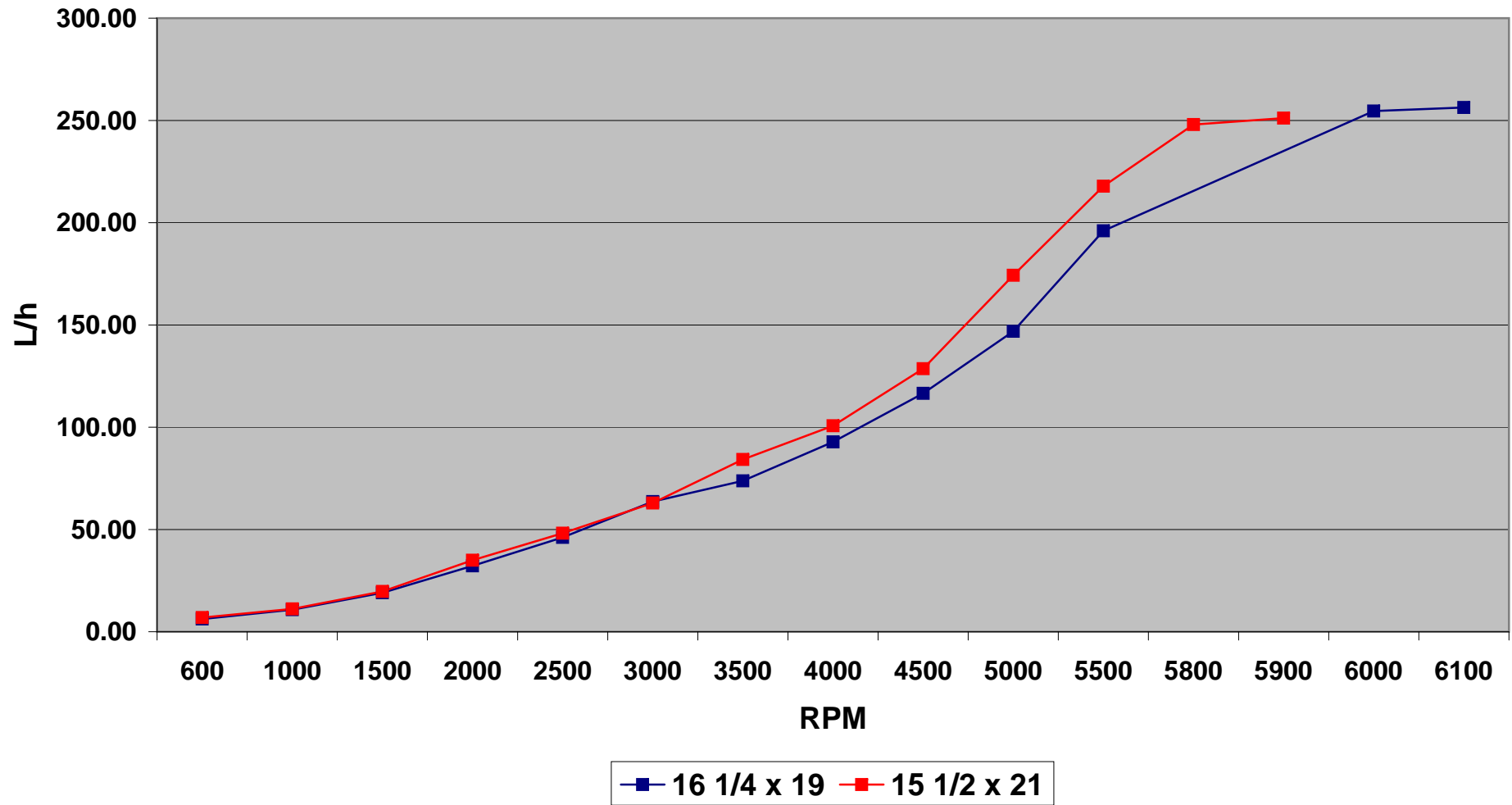
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**Woody Marine 10M Naiad, 2 x F350AETU 16 1/4 x 19" v 15 1/2 x 21" (6AW)
Kilometers Per Hour**



**Woody Marine 10M Naiad, 2 x F350AETU 16 1/4 x 19" v 15 1/2 x 21" (6AW)
Litres Per Hour**



**Woody Marine 10M Naiad, 2 x F350AETU 16 1/4 x 19" v 15 1/2 x 21" (6AW)
Kilometers Per Litre**

