

# Performance Bulletin

Test Date: 18th October 2011



## NOOSA CAT 3000 SPORTSMAN

Length (LOA)	8.31m
Beam Including GW	2.50m
Dry Weight	1,700kg
Max Hp	500hp
Fuel Capacity	600L
Weight as Tested (approximate)	3,300 kg

## F225FETX/11

Horsepower	167.8 kW (250ps) @ 5500rpm
Engine Type	24-Valve 4.2 Litre 60° V6
Weight	253kg
Gear Ratio	1.75 (12/21)
Mounting Height	2nd Hole

## PROPELLER

Series	Saltwater T Series w/SDS
Diameter/ Pitch	15¼ x 19"
Part Number	6CE-45970-00

## TEST CONDITIONS

Crew	5
Air Temperature	21.1° C
Wind Speed	>20 Knots
Fuel	200L
Water Temperature	22.5° C

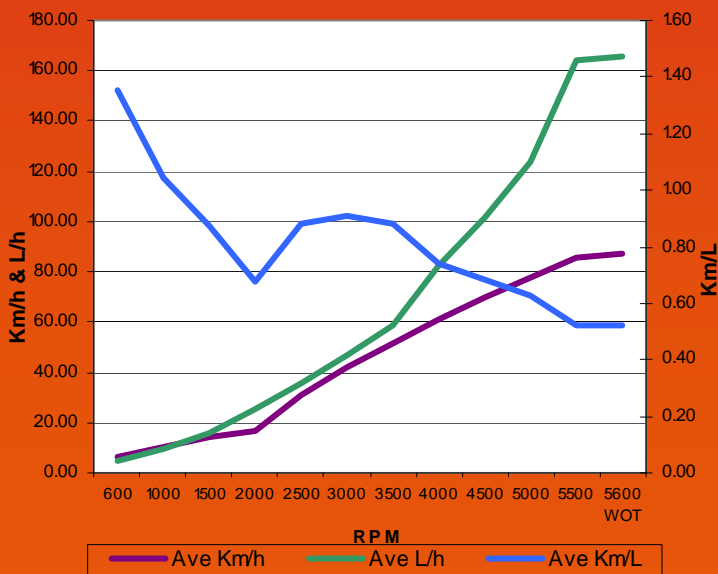
## TEST PERFORMANCE SUMMARY

Max Average Speed	86.90 Km/h or 46.90 Knots
Best Cruising Km/L	0.91 Km/L @ 3000rpm
Range, Based on 95% Fuel Capacity at Best Km/L	519 Kms
7% Prop Slip at 5600 PRM	

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.

## Performance Data

RPM	Ave Km/h	Ave L/h	Ave Km/L
600	6.55	4.90	1.35
1000	9.95	9.60	1.04
1500	14.00	16.00	0.88
2000	16.85	25.00	0.67
2500	31.25	35.50	0.88
<b>3000</b>	<b>42.30</b>	<b>46.50</b>	<b>0.91</b>
3500	51.75	58.90	0.88
4000	60.90	82.30	0.74
4500	69.70	101.80	0.69
5000	77.85	123.60	0.63
5500	85.80	164.10	0.52
5600	86.90	165.70	0.52




Test Performed by certified Yamaha Technicians

Boat Manufactured by:

<http://www.noosacat.com.au/>

## Results of Sea Trial

<b>Date:</b>	18-Oct-11	<b>Place:</b>	Noosa	<b>Name:</b>	Glenn Gibson, Warren Steptoe, Wayne Hennig + 2 Pax. (5 Pax total)						
<b>Boat:</b>	3000 Sportsman			<b>Engine:</b>	F/FL225FETX		<b>Conditions:</b>	Windy - Extremely Rough Offshore			
<b>BB:</b>	Noosa Cat			<b>Serial No:</b>	1000792 / 1000063		<b>Weather:</b>	Sunny With Rain & Wind Squalls			
<b>Max Ave Speed:</b>	86.90	<b>Km/h</b>	<b>Output:</b>	165.5 @ 5500	<b>kW/Rpm</b>	<b>Wind Direction:</b>	ESE				
<b>Max RPM Achieved:</b>	5600	<b>RPM</b>	<b>Prop DXP:</b>	15¼ x	19	<b>Wind Velocity:</b>	>20	<b>Knots</b>			
<b>Max Horse Power</b>	500	<b>HP</b>	<b>Prop Type:</b>	Saltwater T w/ SDS		<b>Temperature:</b>	21.1°	<b>Deg C</b>			
<b>Max Transom Weight:</b>	520	<b>Kgs</b>	<b>Weight:</b>	253	<b>Kgs</b>	<b>Humidity:</b>	64	<b>%</b>			
<b>Displacement:</b>	1,700	<b>Kgs</b>	<b>Gear Ratio:</b>	1.73	(12/21)	<b>Sea Water Temp:</b>	22.5°	<b>Deg C</b>			
<b>Fuel/tank size:</b>	600	<b>Litres</b>	<b>Prop Pt #</b>	6CE-45970-00		<b>Pressure:</b>	1029.5	<b>Hpa</b>			
<b>Eng Height:</b>	2nd Hole		<b>Alt Output:</b>	70	<b>Amps</b>	<b>Max. Fuel Consumption:</b>	165.70	<b>L/h</b>			
	<b>Crew:</b>	5	<b>Persons</b>	<b>Fuel:</b>	600	<b>Kgs</b>					
	<b>Crew Wt:</b>	450	<b>Kgs</b>	<b>Stores: (Tools)</b>	20	<b>Kgs</b>					
	<b>Hull + Eng:</b>	2,206	<b>Kgs</b>	<b>Other: (Water)</b>	0	<b>Kgs</b>					
<b>L.O.A. =</b>	8.31M	<b>Beam =</b>	2.50M	<b>Safety Kit:</b>	50	<b>Kgs</b>	<b>Approx Total:</b>	3,326			<b>Kgs</b>

Test	Engine Trim	Direction	RPM	Speed Km/h	Fuel L/h	Av Speed		Av Fuel Consumption		Kms per Litre	N.M. per Litre	Range in Kms*	Range in Nautical Miles*	Prop Slip
						Km/h	Knots	L/h	G/PH					
1	2 Bar	NE	600	4.20	5.00	6.55	Km/h	4.85	L/h	1.35	0.73	770	415	35%
2	2 Bar	SW	600	8.90	4.70	3.53	Knots	1.07	G/PH					
1	2 Bar	NE	1000	8.10	9.80	9.95	Km/h	9.55	L/h	1.04	0.56	594	320	41%
2	2 Bar	SW	1000	11.80	9.30	5.36	Knots	2.10	G/PH					
1	2 Bar	NE	1500	12.00	16.10	14.00	Km/h	16.00	L/h	0.88	0.47	499	269	44%
2	2 Bar	SW	1500	16.00	15.90	7.55	Knots	3.52	G/PH					
1	2 Bar	NE	2000	14.50	26.10	16.85	Km/h	25.00	L/h	0.67	0.36	384	207	50%
2	2 Bar	SW	2000	19.20	23.90	9.08	Knots	5.51	G/PH					
1	2 Bar	NE	2500	30.90	36.90	31.25	Km/h	35.45	L/h	0.88	0.48	502	271	25%
2	2 Bar	SW	2500	31.60	34.00	16.84	Knots	7.81	G/PH					
1	2 Bar	NE	3000	40.50	46.80	42.30	Km/h	46.50	L/h	0.91	0.49	519	279	16%
2	2 Bar	SW	3000	44.10	46.20	22.80	Knots	10.24	G/PH					
1	2 Bar	NE	3500	49.60	59.90	51.75	Km/h	58.90	L/h	0.88	0.47	501	270	12%
2	2 Bar	SW	3500	53.90	57.90	27.89	Knots	12.97	G/PH					
1	3 Bar	NE	4000	60.40	84.20	60.90	Km/h	82.25	L/h	0.74	0.40	422	227	9%
2	3 Bar	SW	4000	61.40	80.30	32.83	Knots	18.12	G/PH					
1	3 Bar	NE	4500	67.50	106.90	69.70	Km/h	101.75	L/h	0.69	0.37	390	210	7%
2	3 Bar	SW	4500	71.90	96.60	37.57	Knots	22.41	G/PH					
1	4 Bar	NE	5000	77.80	125.30	77.85	Km/h	123.60	L/h	0.63	0.34	359	194	7%
2	4 Bar	SW	5000	77.90	121.90	41.96	Knots	27.22	G/PH					
1	5 Bar	NE	5500	85.50	164.10	85.80	Km/h	164.05	L/h	0.52	0.28	298	161	7%
2	5 Bar	SW	5500	86.10	164.00	46.25	Knots	36.13	G/PH					
1	5 Bar	NE	5600	86.20	165.80	86.90	Km/h	165.70	L/h	0.52	0.28	299	161	7%
2	5 Bar	SW	5600	87.60	165.60	46.84	Knots	36.50	G/PH					

**Turning:** Engine height is perfect and turning exceptional, no ventilation.

**Comments:** Max GPS Speed with 5 pax 87.6Km/h (47.3Knots). Testing speed ave 31.0Km/h (16.7Knots) over 31Kms (16.7Nm)

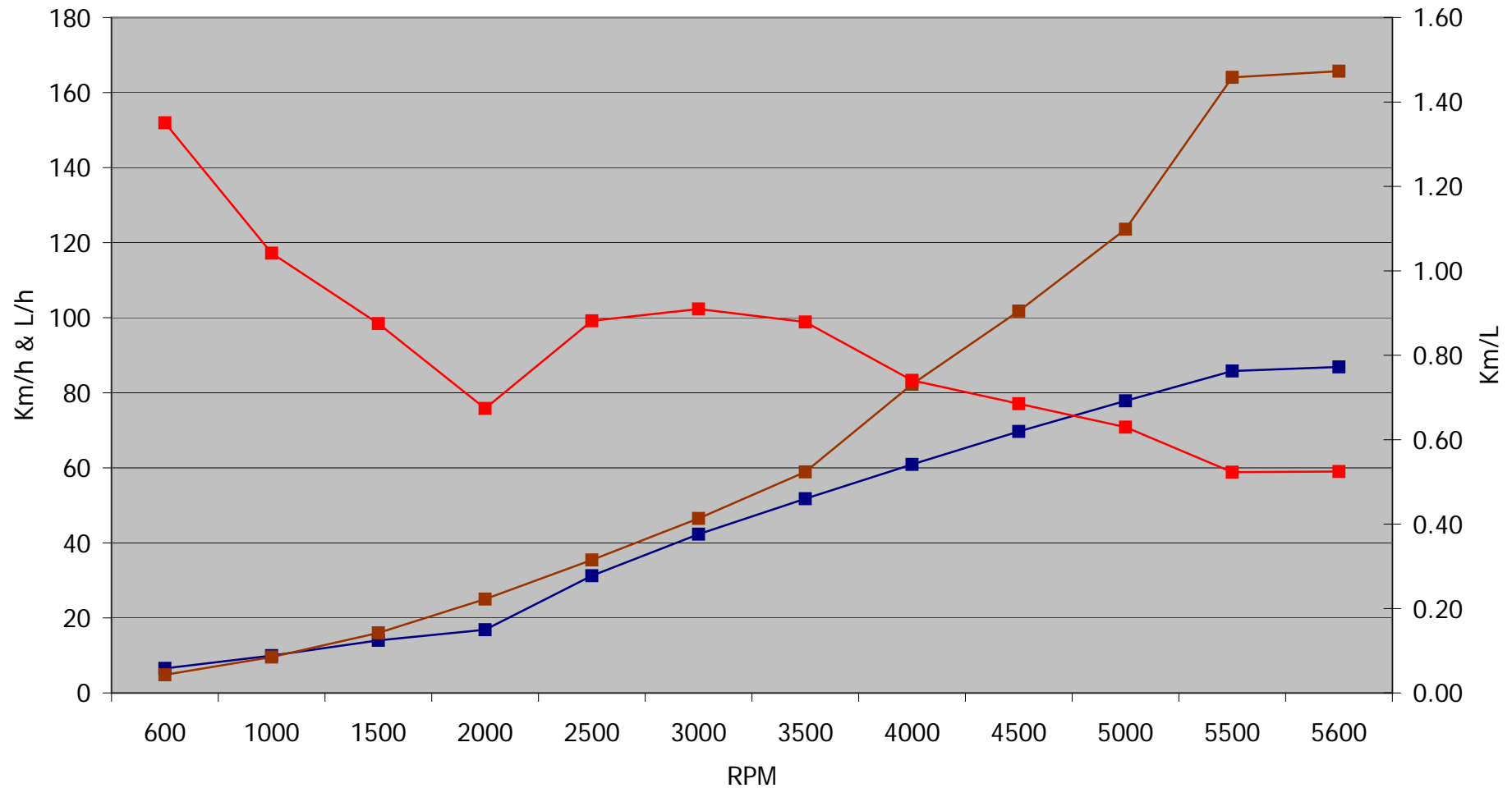
41L fuel used, average tested economy 0.76Km/L (0.41Nm/L).

**\* Range in Kms & Nm = 95% of fuel tank capacity**

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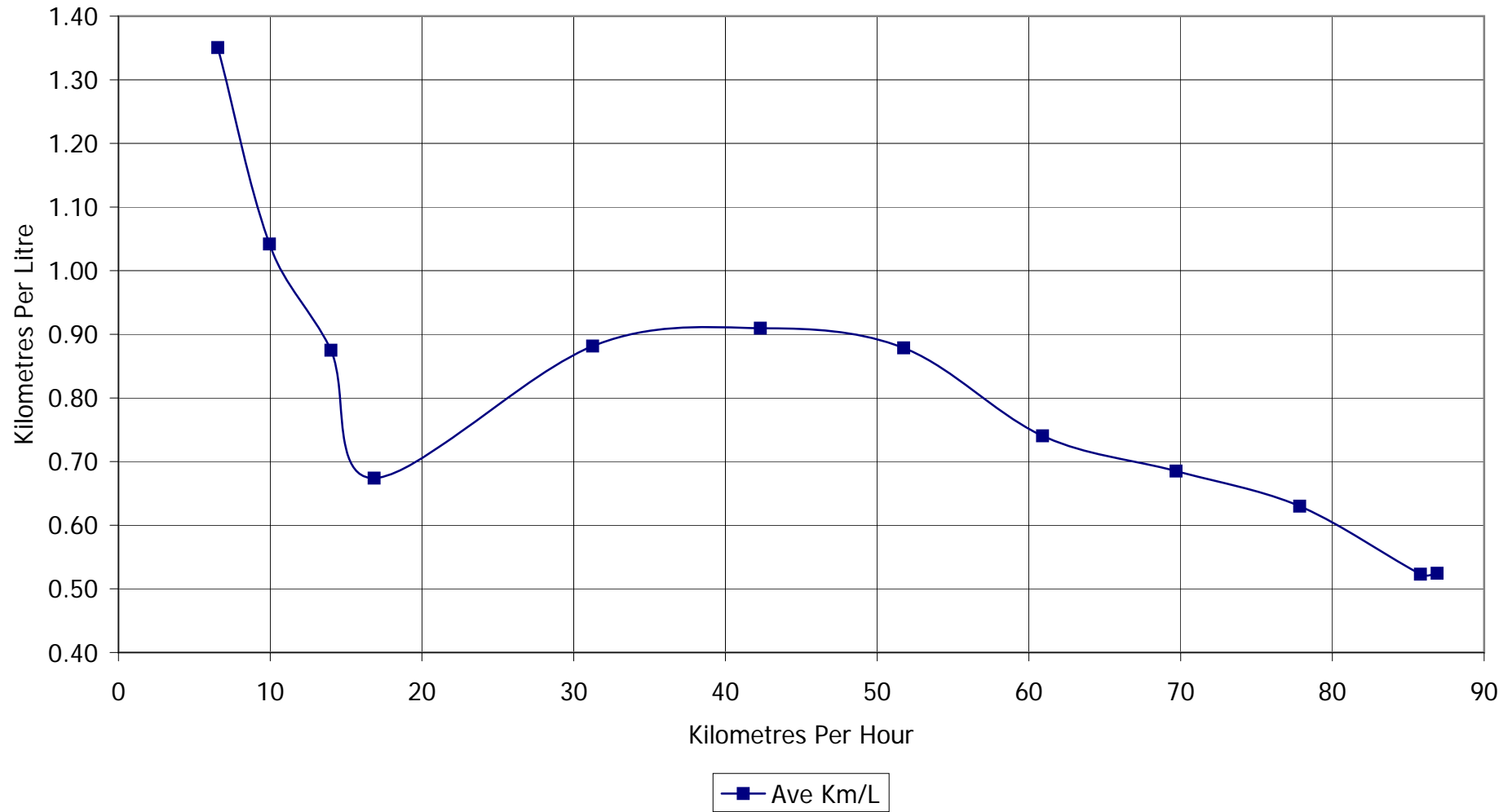
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Noosa Cat 3000 Sportsman, F/FL225FETX 15¼ x 19 S-Steel T W/- SDS

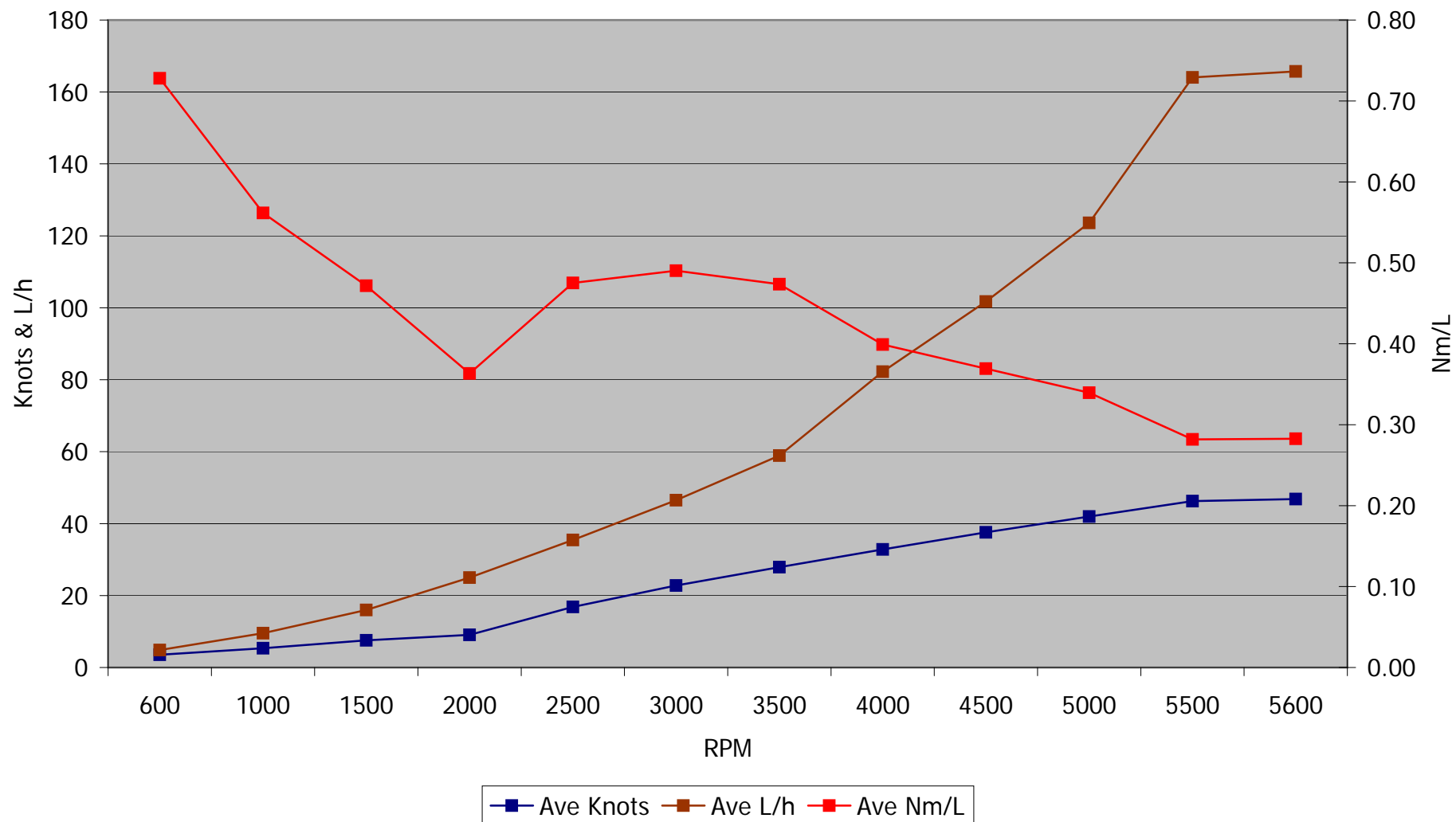


■ Ave Km/h ■ Ave L/h ■ Ave Km/L

Noosa Cat 3000 Sportsman, F/FL225FETX 15¼ x 19 S-Steel T W/- SDS  
Boat Speed With Best Kilometres Per Litre



Noosa Cat 3000 Sportsman, F/FL225FETX 15¼ x 19 S-Steel T W/- SDS



Noosa Cat 3000 Sportsman, F/FL225FETX 15¼ x 19 S-Steel T W/- SDS  
Boat Speed With Nautical Miles Per Litre

