



## DF90A PERFORMANCE TEST on Signature 502RF

### Test conditions

<b>Date:</b>	14/04/2011
<b>Location:</b>	Gold Coast Broadwater
<b>Conditions:</b>	Calm
<b>Temperature:</b>	25°C
<b>Crew:</b>	2

### Test boat: Signature 502RF

<b>Length:</b>	5.25m
<b>Beam:</b>	2.13m
<b>Dry Weight:</b>	940kg (est)
<b>Max Horsepower:</b>	115hp
<b>Fuel Capacity:</b>	100L
<b>Weight as tested:</b>	1250kg (est)

### Outboard: Suzuki DF90A

<b>Horsepower:</b>	90hp
<b>Cylinder:</b>	In line 4
<b>Weight:</b>	155kg
<b>Gear Ratio:</b>	2.59:1
<b>Propeller:</b>	Suzuki 14 x 17 3 blade alloy

### Conclusion

<b>Optimal Cruise Speed:</b>	48.1km/h (25.8 knots)
<b>Cruise Range (Approx) Based on 95% Fuel Capacity:</b>	271km
<b>Maximum Speed:</b>	61.85km/h (33.4 knots)
<b>0-40km/h:</b>	n/a

### Suzuki performance figures

RPM	Av KM/H	L/Hr	Av L/KM
700	7.1	0.9	0.15
1000	10	1.2	0.2
1500	10.1	2.2	0.25
2000	12.1	3	0.25
2500	14.8	5.1	0.45
3000	27.1	7.7	0.5
3500	35.8	9.5	0.35
4000	42.8	11.5	0.35
4500	48.1	15.4	0.35
5000	53.3	20.1	0.4
5500	59.6	24.6	0.45
6000	66	33.2	0.55
6200	60.7	32.2	0.55

### Suzuki fuel consumption comparison

