

11-Jul-20

N41 - Preliminary Sea Trials

Fuel - 1/8th

Water - full

GW and BW - empty

Props 28.5 X 21

Wind 11 knots

Seas - 3 (Beaufort) Large wavelets; crests begin to break; foam of glassy appearance; perhaps scattered white horses

Fuel Capacity 900

RPM	Out - Knots	In - Knots	AVG - Knots	HP	GPH	Range	NM per G	Percent Power
800	2.88	3.15	3.015					
1000	4.12	4.5	4.31	6	0.36	10775	11.97	4%
1200	4.98	5.2	5.09	11.6	0.70	6582	7.31	8%
1400	5.2	5.42	5.31	18.6	1.12	4282	4.76	13%
1600	6.05	6.4	6.225	27.6	1.66	3383	3.76	19%
1800	6.65	7.3	6.975	39.4	2.36	2655	2.95	27%
2000	7.35	7.45	7.4	54	3.24	2056	2.28	36%
2100	7.45	7.75	7.6	62.4	3.74	1827	2.03	42%
2200	7.8	8.15	7.975	76.8	4.61	1558	1.73	52%
2300	8	8.38	8.19	82	4.92	1498	1.66	55%
2400	8.3	8.65	8.475	93.2	5.59	1364	1.52	63%
2500	8.45	8.73	8.59	105.4	6.32	1222	1.36	71%
2600	8.65	8.87	8.76	118.4	7.10	1110	1.23	80%
2700	8.7	9.2	8.95	132.8	7.97	1011	1.12	90%
2800	8.9	9.3	9.1	148	8.88	922	1.02	100%

RPM

GPH

RPM

GPH

RPM

GPH

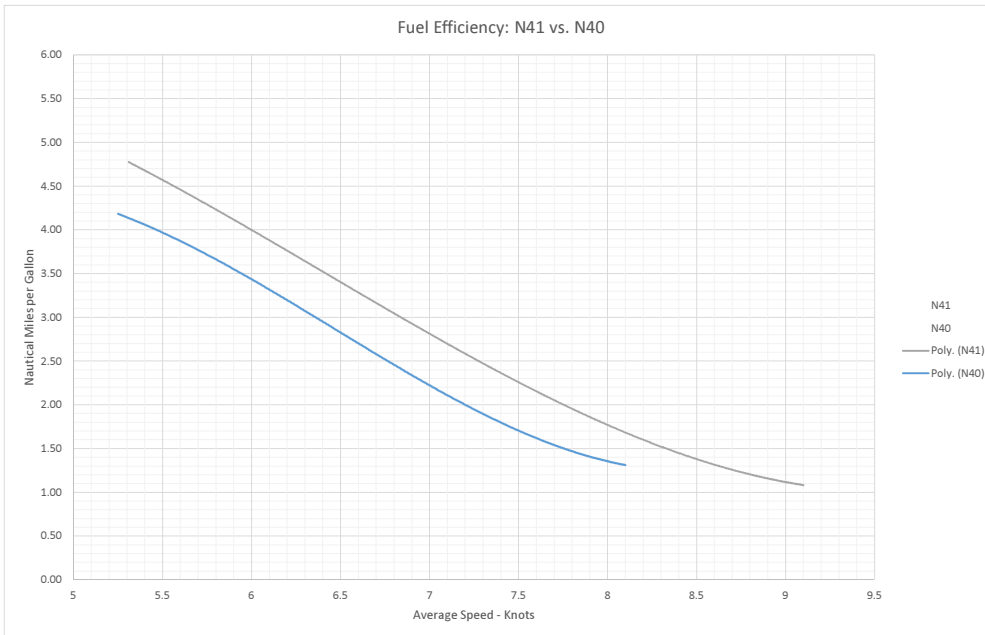
N 40 Performance testing - N40 #66 - Seatrials off Dana Point October 11,

2011 - fuel 3/4 full - weather calm - two way run - average of each

direction - ABT fins on - Data from Murphy and DST computer hook up -

John Dere 4.5 liter

Fuel	920	Avg-Knots	GPH	Range	NM per G
1000		3.75	0.70	4929	5.36
1200		4.63	0.95	4479	4.87
1400		5.25	1.25	3864	4.20
1600		6.03	1.80	3079	3.35
1800		6.63	2.55	2390	2.60
1900		7.00	2.95	2183	2.37
2000		7.00	2.95	2183	2.37
2100		7.25	3.90	1710	1.86
2200		7.50	4.60	1500	1.63
2300		7.70	5.30	1337	1.45
2400		8.10	5.90	1263	1.37



Sound Readings	RPM	DB
	800	62
	2000	69
	2300	70
	2500	71
	2800	74