

## 58 Kadey Krogen Twin Engine Predicted Speed and Range

Engines: Twin John Deere 4045-AFM85, 160bhp @ 2300rpm each, M1 rating  
 shp = bhp x 0.97 (155 hp @ 2300rpm each)

1.17 is used to increase the Hull Speed Estimator shp to agree with trial data shp.  
 Speed-length ratio (S/L) is read from Hull Speed Estimator verses PropHP/1.17 (shp)  
 Displacement @ DWL = 96,830lbs = 43.2LT (aprox 50% load condition)  
 LWL=52'-3" = 52.25  
 Diesel capacity = 1760  
 Diesel burn = 1584  
 Reserve (10%) = 176  
 Generator consumption = 0

rpm	PropHP (shp)	Est-shp Prop HP/1.17	S/L (LWL=52.250')	knots	gph (each)	range
1000	25.48	21.78	0.830	6.00	0.8	5657
1200	44.03	37.63	0.940	6.79	1.3	4016
1400	69.91	59.76	1.060	7.66	2.0	3034
1600	104.36	89.20	1.160	8.38	3.0	2214
1800	148.59	127.00	1.240	8.96	4.5	1578
2000	203.83	174.21	1.330	9.61	6.0	1269
2200	271.30	231.88	1.389	10.04	7.9	1007
2300	310.00	264.96	1.400	10.12	8.8	911 (WOT)

