

**FS17\_low Sheer**

Planing Hull Resistance

MGYD

Report Time: 10/14/2008 9:25:33 AM



Prediction Parameter	Value	Vessel Data	Value
Method	Savitsky	MaxPlaningLength	189.070 in
SpeedCheck	OK	MaxPlaningBeam	59.960 in
HullCheck	OK	DisplacementBare	1055.470 lbf
DesignMarginPercent	5	LCGFwdTransom	61.769 in
DesignSpeed	20 mph	VCGAboveBL	10.000 in
WaterType	Salt	ShaftAngle	0.000 deg
WaterDensity	1025.9 kg/m <sup>3</sup>	LCEFwdTransom	-10.412 in
WaterViscosity	1.1883E-06 m <sup>2</sup> /s	VCEAboveBL	-7.938 in
Propulsive Efficiency	70 %		

Parameter Check	Value	Minimum	Maximum	Type
LcgBchRatio	1.03	0.6	3	Computed
FnBchMax	2.31	1.43	13	Computed
DeadriseMidLen	10.29 deg	0	30	Computed
CLBmax	0.05	0	0.5	Computed

Speed (mph)	Fnv	Trim (deg)	Rbare (lbf)	Rtotal (lbf)	PEtotal (hp)	PPtotal (hp)
8.000	1.300	3.870	128.0	134.4	2.87	4.10
11.000	1.780	4.600	149.4	156.9	4.60	6.57
14.000	2.270	4.200	149.4	156.9	5.86	8.37
17.000	2.760	3.480	150.5	158.0	7.16	10.23
20.000	3.240	2.840	158.4	166.3	8.87	12.67
23.000	3.730	2.320	172.7	181.4	11.12	15.89
26.000	4.210	1.920	192.8	202.4	14.03	20.04
29.000	4.700	1.600	217.4	228.3	17.65	25.21
32.000	5.190	1.340	246.0	258.3	22.04	31.49
35.000	5.670	1.120	278.5	292.4	27.29	38.99
38.000	6.160	0.930	314.1	329.8	33.42	47.74