

CUSTOMER NAME: Richard Carter BOAT NAME: BLACKSHEEP

**BLACK BOWING**  
A PARTS COMPANY  
The Power Behind The Power

## ENGINE PERFORMANCE PLAN

**YANMAR**  
MARINE

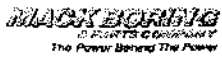
General Information			
Date:	8-25-06	Location of Test:	SALEM SOUND
Boat Manufacturer:	Pearson	Hull #:	
Hull Type:	Sailboat	Hull Model:	
Length Overall ('): )	42'	Length at Water Line ('): )	
Beam @ Maximum ('): )	13'	Beam @ Waterline ('): )	
Boat Weight (Loaded) (lbs):	27,500	Boat Weight as Tested (lbs):	27,500
Sea / Wind Conditions:		Sea Water Temperature (F):	
Air Temperature (F):			
Engine Type / Model:	YANMAR 4JH3-TE		
Serial # Port:	E15829	Serial # STBD:	
Transmission Model No.:	BW VELVET DRIVE 10-17-002 WALTER V-DRIVE 2.5 : 1	Ratio:	1:1
Serial # Port:	4589	Serial # STBD:	
Propeller (Brand):	MARTEC	Number of Blades:	3
Pitch ("):	12"	Diameter ("):	18.5"
Propeller Model:	SLIPSTREAM	Cupped:	
Propeller Shaft Length ('):	6'	Shaft Diameter:	1.5"
Shaft Material:	SS	Surface Drive Model:	
Jet Drive Mfg.:		Model:	
Impeller Size:		Nozzle Size:	
Measurements			
Motor Mount Type:	Soft	Centerline Dimension ("):	
		Installation Angle (Static):	
Transom Thickness (Stemdrives) ("):		Twin Engine Centerline Dimension ("):	
Engine Clearance - Top ("):	6"	Engine Clearance Bottom ("):	
Engine Clearance Outboard Port Side ("):	10"	Starboard Side ("):	10"
Ventilation Intake (Total Combined Area) (sq"):		Ventilation Exhaust (Total Combined Area) (sq"):	
Blower Routing Approved:			
Electric / Steering			
Electric Systems (12/24 Volt):		Battery Size/CCA	
Mfg. of Gauges:		12 or 24 Volt:	
Battery Switch (Brand / Model):		Length and Size of Battery Cable:	
Steering System Type:		Number Stations:	



Hull #

Customer Name: Richard Carter

BOAT NAME: BLACKSHEEP



# Engine Performance Plan



PORT/STBD IN

RPM	Photo Tac. (RPM)	Boost (PSI)	Exhaust Temp (F)	Air Intake Temp (F)	Running Angle (°)	Knots	Back Pressure (PSI)
700 Idle	674	2	81			2.5	0.288
1000	930	2	81			2.8	0.288
1500	1424	2	83			4.0	0.288
2000	1961	3	115			5.6	0.324
2500	2413	4	133			7	0.360
2800	2648	4	148			7.5	0.396
3000	2879	6	127			7.5	0.432
3300	3092	8	124			7.7	0.540
3500	3310	10	114			7.8	0.648
3800	3604	12	107			7.7	0.828
4000 WOT	3914					7.8	
No Load RPM	4251						
Idle Neutral	122						
Engine room depression (inH2O):							

Hull #

Customer Name: Richard Carter

BOAT NAME: BLACKSHEEP

**BLACK SHEEP**  
3 PARTS CONSULTANT  
The Power Behind The Power

**YANMAR**  
marine

# Engine Performance Plan

## PORT/STBD OUT

RPM	Photo Tac. (RPM)	Boost (PSI)	Exhaust Temp (F)	Air Intake Temp (F)	Fuel (GPH)	Knots	Back Pressure (PSI)
650 idle	702	0	73	37		2.3	0.288
1000	936	0	73	33		2.5	0.288
1500	1436	5	79	27		4.2	0.288
2000	1944	5	135	29		5.6	0.324
2500	2416	6	152	25		6.8	0.360
2800	2658	7	143	25		7.2	0.360
3000	2802	7	131	25		7.4	0.396
3300	7123	9	120	25		7.5	0.504
3500	3343	11	117	25		7.5	0.648
3800	3645	13	113			7.6	0.864
4050 WOT	3944	15	121			7.6	1.152
No Load RPM	4253						
700 Idle Neutral	674						

Engine room depression (inH2O):