

General Information			
Date:	2/25/2008	Location of Test:	Solomons, MD
Boat Manufacturer:	Pearson	Hull #:	2
Hull Type:	Sail, displacement mono hull	Hull Model:	424 Ketch
Length Overall ('):	42' 4"	Length at Water Line ('):	33' 8"
Beam @ Maximum ('):	13'	Beam @ Waterline('):	13'
Boat Weight (Loaded) (lbs):	21000	Boat Weight as Tested (lbs):	20000
Sea / Wind Conditions:	Calm, 5 knots	Sea Water Temperature (F):	41 F
Air Temperature (F):	39 F		
Engine Type / Model:	4JH4AE		
Serial # Port:	E07044	Serial # STBD:	
Transmission Model No.:	B/w 10-17-004	Ratio:	1:1 transmission, 2:1 V-drive
Serial # Port:	10535	Serial # STBD:	
Propeller (Brand):	Max Prop	Number of Blades:	33' 8"
Pitch ("):	10.8"	Diameter ("):	20"
Propeller Model:	Three Blade Classic	Cupped:	No
Propeller Shaft Length ('):	8'	Shaft Diameter:	1.5"
Shaft Material:	Bronze	Surface Drive Model:	
Jet Drive Mfg.:		Model:	
Impeller Size:		Nozzle Size:	
Measurements			
Motor Mount Type:	Yanmar	Centerline Dimension ("):	
		Installation Angle (Static):	10 deg
Transom Thickness (Sterndrives) ("):		Twin Engine Centerline Dimension ("):	
Engine Clearance - Top ("):	12"	Engine Clearance Bottom ("):	6"
Engine Clearance	16"		
Outboard Port Side ("):		Starboard Side ("):	16"
Ventilation Intake (Total Combined Area) (sq"):	4" blower	Ventilation Exhaust (Total Combined Area) (sq"):	4" hose
Blower Routing Approved:			
Electric / Steering			
Electric Systems (12/24 Volt):	12vdc	Battery Size/CCA	8D 1200CCA
Mfg. of Gauges:	Yanmar panel	12 or 24 Volt:	12v
Battery Switch (Brand / Model):	Hella	Length and Size of Battery Cable:	2/0 8'
Steering System Type:	Cable	Number Stations:	1



Hull#:

**Date:** \_\_\_\_\_

Hull #



# Engine Performance Plan



PORT/STBD IN

RPM	Photo Tac. (RPM)	Boost (PSI)	Exhaust Temp (F)	Air Intake Temp (F)	Running Angle (°)	Knots SOG	Back Pressure (PSI)
idle	827			75		2.7	1
1000	1067			77		3.5	1.2
1500	1538			78.5		5.2	1.2
2000	1960			78.1		6.8	1.25
2500	2462			77.4		7.8	1.5
2800	2748			76.4		8.1	1.5
3000	2950			76.3		8.3	1.6
3300							
3500							
3800							
WOT							
No Load RPM	3290	Engine room depression (inH2O):					
Idle Neutral	830						

Hull #

# Engine Performance Plan

PORT/STBD OUT							
RPM	Photo Tac. (RPM)	Boost (PSI)	Exhaust Temp (F)	Air Intake Temp (F)	Fuel (GPH)	Knots SOG	Back Pressure (PSI)
idle	825			70		3.2	1
1000	1069			70		3.9	1.2
1500	1494			70.3		5.4	1.2
2000	1961			70.3		6.7	1.25
2500	2460			70.9		7.7	1.4
2800	2724			72		8	1.5
3000	2960			74		8	1.55
3300							
3500							
3800							
WOT							
No Load RPM		Engine room depression (inH2O):					
Idle Neutral							