

Trial Run Checklist

Boat Name: _____ Date: _____

Engine(s) Model #: _____ Engine(s) Hours: _____

CONDITIONS

		Empty	1/4	1/2	3/4	Full
Estimate tank levels	Fuel					
	Water					
Prop and bottom fouling, if known						
Approximate wind speed, wind direction, and wave height						

PRE TRIAL RUN

	Port or Single	Starboard or Get-home
Engine manufacturer's maximum RPM rating		
Prior to starting engines, check the following:		
Lube oil at proper level		
Transmission fluid/lower-unit lube at proper level		
Coolant at proper level		
Belts in good condition and properly adjusted		
Seacock valve open and strainer clean		
Throttle control (all helms): Moves freely to stops at helms and engine; fully engages stops at pump		
Transmission control: Moves freely to stops at helms and transmission; fully engages stops at transmission		
Start engines and check the following at idle:		
Oil pressure reading (lb. – bar – kpa)		
Tachometer operational		
Throttle control (all helms)		
Transmission control (all helms): Engage F-N-R		
Check for oil leaks; none found unless noted		
Check for water leaks; none found unless noted		
Check for fuel leaks; none found unless noted		
Primary fuel filter clean		
Verify adequate exhaust water flow		
Exhaust smoke normal		
Eng. coolant temp. after 15 min. run time at idle (°F - °C)		
Alternator charge rate (VDC)		
Alternator charge rate (2nd alternator, if app.) (VDC)		
Confirm water flow to injected or "dripless" stuffing boxes (remove hose at stuffing box while engine is running, per manufacturer's guidelines)		

Other observations:		
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UNDERWAY

Port or Single

Starboard or Get-home

Run engine(s) up to wide open throttle and check the following:							
Engine oil pressure under load (lb. – bar – kpa)							
Transmission oil pressure under load (lb. – bar – kpa)							
Engine sea water pump flow rate adequate							
Exhaust smoke normal							
Engine coolant temp. after 15 minutes (°F or °C)	Upper gauge	Pyrometer		Upper gauge	Pyrometer		
	Lower gauge			Lower gauge			
Transmission temperature (°F or °C)							
Engine vibration							
Alternator charge rate (VDC)							
Alternator charge rate (2nd alternator, if app.) (VDC)							
Check for oil leaks; none found unless noted							
Check for water leaks; none found unless noted							
Fuel vacuum reading							
Maximum boat speed in reciprocal directions; use GPS if possible and note which equipment used for speed data	Max speed	Direction	Equipment	Max speed	Direction	Equipment	
Maximum engine RPM	Boat tach.		Strobe tach.		Boat tach.		Strobe tach.

CONTROL SYSTEMS

Notes

Check steering: smooth, no excess travel, air, etc	
Check trim tabs (operation and fluid level)	
Check stabilizers by making figure-eights with boat	
Run bow/stern thrusters for 20 seconds; verify proper direction	

Port or Single

Starboard or Get-home

Check shaft stuffing boxes:		
Temperature at cruising RPM (check with pyrometer)		
Verify acceptable drip rate		
Check rudder packing glands; verify acceptable drip rate		
Other observations		

POST TRIAL RUN

Notes

Engine pan clean	
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