Start-up Inspection Report
For Detroit Diesel Engines

Customer Name: ___________________________ R.O. # __________ Date __________
Address __________________________ City __________ State ______ Zip __________
Application __________ Make of Equipment __________ Equipment Model # __________
M/V Name __________ Official # __________ Model # __________ Serial # __________
Governor Type:  □ Hydraulic  □ Variable Speed  □ Limiting Speed  □ Constant Speed

BASIC ENGINE CHECK LIST

- Check Crankshaft End Play (.004 Min)
- Check Throttle and Shutdown Linkage
- Check Engine Mounts

* Test Alarm System *

1) Low Oil Pressure
2) High Water Temp
3) Low Water Temp
4) Low Oil Level
5) Oil Temp

- Idle Speed __________
- Max No Load Speed __________
- Full Load Speed
  1) Against Dock __________
  2) Under Tow __________

- Adjust Buffer Screw
- Change Air Compressor
- Check Condition of other accessories
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FUEL SYSTEM

- Injector Size ________
- Check for Correct Fuel Line Routing and Size

<table>
<thead>
<tr>
<th>Series</th>
<th>Supply</th>
<th>Return</th>
</tr>
</thead>
<tbody>
<tr>
<td>53, 71, 92</td>
<td>#8</td>
<td>#6</td>
</tr>
<tr>
<td>16V71, 16V92</td>
<td>#12</td>
<td>#8</td>
</tr>
<tr>
<td>149</td>
<td>#12</td>
<td>#10</td>
</tr>
</tbody>
</table>

- If incorrect size, record size found
Supply ________ Return ________

- Pressure Test fuel System
- Fuel Inlet Restriction (6in hg - clean) ________
- Check Condition of Fuel Lines
- Service Fuel Filters
- Inspect Fuel Cooler and Routing of lines to Cooler
- Check for Restricted Fitting

OIL SYSTEM

- Check Dipstick for Proper Oil Level in Engine
- Change Oil Filter

- Check Condition of Oil Pressure Gauge and Line
- Engine Room
- Wheel House
- Others

- Remote Oil Filters
  1) Change Filter Bypass Valve
  2) Check Condition of Hoses
  3) Check for Correct Size of Hoses (refer to Field Data Book)

- Oil Pressure
  1) Idle ______ 2) Full Load ______
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COOLING SYSTEM

☐ - Replace All Coolant Hoses
☐ - Check for Proper Deaeration Lines

53, 71, 92 Series 1 - # 6 Line
149 Series 2 - # 8 Lines

- Radiator Cooled Engines
☐ 1) Check Condition of Radiator
☐ 2) Check Radiator Cap
☐ 3) Change all Drive Belts

- Heat Exchanged Cooled Engines
☐ 1) Change all Zinc Electrodes
☐ 2) Check Condition of Heat Exchanger
☐ 3) Check Condition of Raw Water Pump, Sea Strainer and Piping
☐ 4) Prime Raw Water Pump

- Keel Cooled Engines
☐ 1) Check Day Tank and Coolant Fill Line
☐ 2) Bleed Air from Engine and Keel Cooler
☐ - Pressure Test Closed Cooling System
☐ - Check for Antifreeze or Corrosion Inhibitor
☐ - Check for Proper Operation of Water Temp Gauge

☐ 1) Engine Room
☐ 2) Wheel House
☐ 3) Other

☐ - Water Temp at Full Load ______

AIR SYSTEM

☐ - Inspect all Components of Air Cleaner Sys for Cracks, Holes, Leaks, etc.
☐ - Change Air Filter Elements
☐ - Check Air Restriction Gauge
☐ - Check for Proper Operation of Emergency Shutdown

- Air Cleaner
  1) Make _________ 2) Size _________ 3) Quantity _________
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EXHAUST SYSTEM
☐ - Check for Correct Muffler size (refer to Field Data Book)
☐ - Check for Rain Cap if Needed
☐ - Check Piping for Exhaust Leaks

DRIVE UNIT
1) Make ______________________
2) Model # ______________________
3) Serial # ______________________

Marine Gear
☐ - Ratio ________
☐ - Check Oil Level
☐ - Change Rubber Blocks

Oil Cooler
☐ 1) Engine Mounted
☐ 2) Remote Mounted
☐ - Oil Pressure, Full Load ________

PTO ASSEMBLY
☐ - Change Pilot Bearing
☐ - Lubricate all Grease Points
☐ - Adjust Engagement Pressure

TORQUE CONVERTER OR TRANSMISSION
☐ - Check Fluid Level
☐ - Check for Proper Operation
☐ - Check Transmission Mounts

POWER GENERATOR
- RPM ________ - Cycles ________
- Voltage ________ - KW ________
- Phase ________
☐ - Check for Proper Operation
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Date __________  Repair Order # __________  Model # __________  Serial # __________

NOTES
__________________________________________________________________________
__________________________________________________________________________
__________________________________________________________________________
__________________________________________________________________________
__________________________________________________________________________

RECOMMENDATIONS TO CUSTOMER FOR ENGINE LONGEVITY
__________________________________________________________________________
__________________________________________________________________________
__________________________________________________________________________
__________________________________________________________________________

This inspection, which I understand is for the purpose of achieving proper operating performance on the rebuilt engine, has been completed to my satisfaction.

Date __________  Signature ________________________________  Title __________

Owner's Comments ____________________________________________

__________________________________________________________________________

Inspected By ________________________________  Date __________
Reviewed By ________________________________  Date __________