# Running Hours DE 4

**Date:** May 31, 2015 **Engine Run hrs:** 126,504

| Term | | Description / Cyl | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| O | 8,000 | Piston Overhaul | 112 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 1,066 | 2,057 | 2,057 | 2,057 | 2,057 | | |
| C | 8,000 | Cylinder Cover Inspection | 112 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 1,066 | 2,057 | 2,057 | 2,057 | 2,057 | | |
| O | 8,000 | Cooling Jacket O-Ring (Cover) | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 1,066 | 2,057 | 2,057 | 2,057 | 2,057 | | |
| O | 16,000 | Exhaust Valve | 2,057 | 2,057 | 2,057 | 8,623 | 8,623 | 2,057 | 8,623 | 1,066 | 5,626 | 2,057 | 8,623 | 2,057 | | |
| O | 8,000 | Fuel Valve, left | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 1,066 | 2,057 | 2,057 | 2,057 | 2,057 | | |
| O | 8,000 | Vacant | | | | | | | | | | | | | | |
| O | 8,000 | Fuel Valve, right | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | | |
| O | 16,000 | Starting Air Valve | | | | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | | | | | |
| O | 16,000 | Safety Valve | 15,150 | 75,104 | 75,104 | 72,676 | 75,104 | 15,150 | 15,150 | 15,150 | 5,626 | 75,104 | 75,104 | 15,150 | | |
| O | 16,000 | Indicator Valve | 77,360 | 63,359 | 43,924 | 41,734 | 41,734 | 63,359 | 63,359 | 77,360 | 70,315 | 63,359 | 77,360 | 72,676 | | |
| C | 8,000 | Cylinder Liner | 112 | 15,150 | 2,057 | 8,623 | 2,815 | 8,623 | 8,083 | 1,066 | 20,340 | 18,504 | 8,623 | 20,340 | | |
| C | CB | Cooling Jacket O-Ring (Liner) | 112 | 15,150 | 2,057 | 8,623 | 2,815 | 8,623 | 8,083 | 1,066 | 7,101 | 7,101 | 8,623 | 20,340 | | |
| O | 8,000 | Piston Crown | 2,057 | 2,057 | 2,057 | 8,623 | 2,057 | 8,623 | 8,083 | 18,504 | 2,057 | 18,504 | 8,623 | 20,340 | | |
| O | 8,000 | Piston Ring | 112 | 15,150 | 7,101 | 8,623 | 2,815 | 8,623 | 8,083 | 1,066 | 7,101 | 18,504 | 2,057 | 5,626 | | |
| O | 8,000 | Piston Press Test | 2,057 | 2,057 | 2,057 | 8,623 | 2,057 | 8,623 | 8,083 | 1,066 | 7,101 | 18,504 | 8,623 | 5,626 | | |
| O | 8,000 | Stuffing Box | 3,866 | 15,150 | 7,101 | 8,623 | 2,815 | 8,623 | 8,083 | 1,066 | 7,101 | 18,504 | 8,623 | 5,626 | | |
| O | 50,000 | Fuel Pump, Plunger/Barrel Runtime | 32,175 | 22,896 | 19,772 | 29,231 | 30,477 | 22,896 | 26,301 | 22,896 | 29,231 | 35,137 | 22,896 | 13,359 | | |
| O | 16,000 | Plunger / Barrel | 5,626 | 2,057 | 19,772 | 8,623 | 2,057 | 8,623 | 18,504 | 2,057 | 20,340 | 20,340 | 8,083 | 13,359 | | |
| O | 16,000 | Suction Valve | 3,077 | 2,057 | 2,057 | 2,057 | 2,057 | 8,623 | 7,101 | 2,057 | 10,469 | 10,469 | 15,150 | 2,057 | | |
| O | 16,000 | Puncture Valve | 3,077 | 2,057 | 2,057 | 2,057 | 2,057 | 8,623 | 7,101 | 2,057 | 10,469 | 10,469 | 15,150 | 2,057 | | |
| O | 2,000 | Shock Absorber | 3,866 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | | |
| C | CB | Roller Guide, Fuel | 63,359 | 63,359 | 63,359 | 63,359 | 63,359 | 63,359 | 63,359 | 63,359 | 63,359 | 63,359 | 63,359 | 63,359 | | |
| O | 16,000 | Exhaust Valve Actuator | 12,593 | 12,593 | 12,593 | 12,593 | 12,593 | 12,593 | 12,593 | 12,593 | 12,593 | 12,593 | 12,593 | 12,593 | | |
| C | C16+CB | Roller Guide, Exhaust | 86,028 | 86,028 | 86,028 | 86,028 | 86,028 | 86,028 | 86,028 | 86,028 | 86,028 | 86,028 | 86,028 | 86,028 | | |
| C | 8,000 | Crosshead Bearing (Clearance) | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | | |
| C | C32+CB | Crosshead Bearing | 43,924 | 60,721 | 60,721 | 60,721 | 60,721 | 43,924 | 60,721 | 60,721 | 60,721 | 43,924 | 43,924 | 60,721 | | |
| C | 8,000 | Crankpin Bearing (Clearance) | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | | |
| O | CB | Crankpin Bearing | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | | |
| C | 8,000 | Crankshaft Deflection | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | | |
| C | 8,000 | Main Bearing (Clearance) | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 |
| C | C32+CB | Main Bearing | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 |
| C | CB | | | | | | | | | | | | | | | |
| C | 16,000 | Camshaft Bearing | 126,504 | 126,504 | 126,504 | 126,504 | 126,504 | 126,504 | 126,504 | 126,504 | 126,504 | 126,504 | 126,504 | 126,504 | | |
| C | 8,000 | Surface Running Cam, FO | 5,626 | 5,626 | 5,626 | 5,626 | 5,626 | 5,626 | 5,626 | 5,626 | 5,626 | 5,626 | 5,626 | 5,626 | | |
| C | 8,000 | Surface Running Cam, Exh | 5,626 | 5,626 | 5,626 | 5,626 | 5,626 | 5,626 | 5,626 | 5,626 | 5,626 | 5,626 | 5,626 | 5,626 | | |
| O | O16+C2 | Cylinder Lubricator | 8,623 | 8,623 | 8,623 | 8,623 | 8,623 | 8,623 | 8,623 | 8,623 | 8,623 | 8,623 | 8,623 | 8,623 | | |
| C | 8,000 | Thrust Bearing | 32,175 | | | | | | | | | | | | | |
| C | 8,000 | Chain Drive / Camshaft Coupling Bolts | 2,057 | 5,626 | | | | | | | | | | | | |
| O | 8,000 | Retighten Holding Bolts/End Bolts | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | | |
| O | 8,000 | Retighten Stay Bolts | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | | |
| C | 1,000 | Scav Air Port Inspection | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | | |
| O | 12,000 | T/C Overhaul | 5,626 | 5,626 | 2,057 | | | | | | | | | | | |
| O | 8,000 | T/C Turbine side cleaning | 5,626 | 5,626 | 2,057 | | | | | | | | | | | |
| O | 2,000 | T/C Filter Cleaning | 2,057 | 2,057 | 2,057 | | | | | | | | | | | |
| O | 5,000 | T/C Oil Change | 2,057 | 5,626 | 2,057 | | | | | | | | | | | |
| O | 3,000 | Scav Air Cooler Cleaning | 2,057 | 2,057 | 2,057 | | | | | | | | | | | |
| O | 2,000 | Scav. Air Receiver Cleaning | 2,057 | | | | | | | | | | | | | |
| O | 2,000 | Scav. Air Box Cleaning | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | 2,057 | | |
| O | 2,000 | Clean Scav. Drain Line | 15,150 | | | | | | | | | | | | | |
| O | 16,000 | Main Starting Air Valve | 74,918 | | | | | | | | | | | | | |
| O | 16,000 | Starting Air Distributor | 12,593 | | | | | | | | | | | | | |
| O | 4,000 | Lubricate All Moving Parts | 126,504 | | | | | | | | | | | | | |
| C | 8,000 | Rotate Reg. Shaft Bearings | 126,504 | 126,504 | 126,504 | 126,504 | 126,504 | 126,504 | 126,504 | 126,504 | 126,504 | 126,504 | 126,504 | 126,504 | | |
| C | 8,000 | Check Safety Alarms | 81,815 | | | | | | | | | | | | | |
| O | 8,000 | Seawater cooler cleaning | 2,057 | | | | | | | | | | | | | |
| C | 3,000 | Governor oil change | 2,057 | | | | | | | | | | | | | |
| C | 8,000 | Inspection of Exh. Receiver & Grids | 2,057 | | | | | | | | | | | | | |
| C | CB | Large Parts | | | | | | | | | | | | | | |
| O | 4,000 | Cleaning bowl for L,O purifier | 2,057 | | | | | | | | | | | | | |
| O | 4,000 | Cleaning bowl for F,O purifier A,B,C | 2,057 | 2,057 | 2,057 | | | | | | | | | | | |