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SCOPE OF WORK - ANNUAL MAINTENANCE CONTRACT (ASHOK LEYLAND ENGINE FITTED ON MOORING LAUNCH ROJA).

I. AIR SYSTEM:

1. Checking, cleaning, replacing of air cleaner element if required.
2. Checking of connection of Air filter hose clamps etc.
3. Checking of all mounting bolts and nuts of Engine foundation, inlet and exhaust manifold for tightness.

II. FUEL SYSTEM:

1. Checking Fuel filter for water, dirt etc. Condition of fuel.
2. Checking condition of fuel hoses, fuel tank for cleanliness.
3. Checking all fuel line connections are secured properly to avoid air entry in system.
4. Checking solenoid for proper functioning.
5. Fuel Throttle by accelerator, proper adjustments of Throttle and smooth operation of throttle linkage
6. Replacement of Fuel filter element at every 300 hrs of engine operation or 6 months whichever is earlier.

III. COOLING SYSTEM:

1. Checking and arresting coolant leakage from radiator / heat exchanger connection hoses and clamps etc.
2. Checking of PH and PPM Value of water.
3. Checking and tightness of fan and water pump belts if necessary.
4. Checking coolant for proper level.
5. Checking conditions of Hoses and clamps.
6. Checking for positive duration and venting.
7. Checking coolant for evidence of dirt and rust.
8. Checking radiator fins conditions to allow air flow.

IV. LUBRICATING SYSTEM:

1. Check condition of Luboil / lub oil filter element to access the condition.
2. Checking for Lub oil leakages of Luboil system and arresting them as required.
3. Checking of Luboil level in engine sump and Topping up as required.
4. Replacement of Engine Sump Lub oil and filters at every 300hrs of engine operation OR 6 months whichever is earlier.

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V. EXHAUST SYSTEM:

1. Checking for Exhaust leakage
2. Checking Exhaust Manifold for proper tightness
3. Checking smoke level

VI. GENERAL CHECKUP:

1. Check condition of drive Belts of pumps, battery charging alternator and adjust Belt tension, if required.
2. Check for proper functioning of all Gauges, Safety cut outs /Controls.
3. Check for throttle response and smoothness and free movement and proper functioning of Governor.
4. Check engine for any abnormal noise.
5. Tappet setting (as and when falls due as per recommendation) / to check atleast once in a year.
6. Check condition of engine vibration mountings.
7. Check engine for proper performance and record all engine parameters as per format given below at Slno.VII in service reports.
8. Check crank shaft end play- Once in a year
9. Check acc drive end play if applicable

VII. RECORD ENGINE PARA METERS

1. Hours run :
2. Fresh Water Temp :
3. Lub oil Temp :
4. Idle RPM :
5. Lube Oil Pressure :
6. Fresh water Pressure :
7. Full Road RPM/HZ :

Technical Observation :

Technical Recommendation & Backup

Action Required :

Service Engineer:

Date :

Customer :

Date: