

YACU

Marine Engineering



Main Engine Pneumatic Maneuvering Systems



Alpha Cylinder Lubrication Systems



**Mechanical Type Cylinder Lubrication Systems
(Hans Jensen, Atlas and other brands)**

Maintenance, Troubleshooting and Health Check



2 & 4 Stroke Engine Technical Solutions



Spare Parts Supply



Dry Dock Support

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Company Technical Profile

YACU Engineering is a marine technical service company specialized in main engine systems, with focus on pneumatic maneuvering and cylinder lubrication systems. Our services are structured in accordance with engine maker documentation, service letters, and manufacturer maintenance intervals. Our objective is to ensure operational reliability, performance stability and long-term protection of main engine critical systems.

Technical Service Philosophy

Condition Assessment: Visual inspection, functional testing

Corrective & Preventive Maintenance: Component overhaul, replacement of worn parts, calibration and timing verification, maker tolerance compliance.

System Validation: Operational test under working condition, documentation and reporting.

Why Choose YACU?

- Experienced marine engineer background
- Field-based troubleshooting expertise
- Fast mobilization worldwide
- Detailed technical reporting
- Cost-efficient and reliable solutions
- Service during shipyard and other operating conditions

Main Engine Pneumatic Maneuvering System Maintenance-Troubleshooting-Health Check

We provide comprehensive inspection, maintenance and troubleshooting services for Main Engine pneumatic maneuvering systems in accordance with maker's recommendations and official service documentation.

Our scope includes:

- complete overhaul of air control valves
- complete overhaul of reversing cylinders
- complete overhaul of v.i.t actuators
- complete overhaul of main starting & slow turning valves
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- complete overhaul and detailed inspection of the starting air distributor
- functional testing of maneuvering system

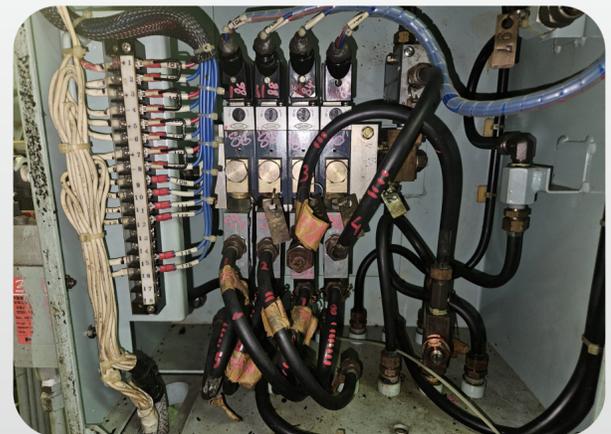
Service Interval Compliance

Maintenance planning is carried out in accordance with maker's official Service Letters;

- Every 2 years : Pneumatic maneuvering system components are overhauled at least every two years,
Service Letter No: SL2001-394

All Works are performed following manufacturer tolerances and documentation standards.

We provide detailed service reports including measurement records and condition evaluation.



Alpha Cylinder Lubrication Systems

Maintenance-Troubleshooting-Health Check

We perform complete service and condition assessment of Alpha cylinder lubrication systems to ensure optimal cylinder oil consumption and engine protection.

Our services include:

- Alpha lubricator unit overhaul
- Accumulator replacement or recharging
- Checking and adjusting if necessary Angle encoder-Pick up sensors
- Adjusting index transmitter
- Timing check
- Booster pumps overhaul and spider coupling replacement
- System parameter check
- Booster unit filters replacement
- System running test



Maker's Service Compliance

Maintenance is executed according to official maker instructions, MAN B&W SL 2016-632/AAB

-Every 5 years or 32.000 running hours (R/H), the following parts must be replaced;

- Accumulators
- Solenoid valves
- Non-return valves
- Feedback sensors
- Seals and O-rings
- Filter inserts
- Coupling spiders



Correct lubrication is critical for:

- Cylinder liner protection
- Piston ring lifetime
- Optimal oil consumption
- Prevention of scuffing and cold corrosion

Mechanical Type Lubrication Systems

Maintenance-Troubleshooting-Health Check

Mechanical lubricators require proper feed rate adjustment and correct timing to ensure reliable cylinder lubrication.

Our service scope includes:

- Mechanical lubricator complete overhaul
- Timing check and readjustment
- Heater check
- Lubricator RPM and engine RPM ratio check (Required for feed rate adjustment)
- Oil filling float running check (if applicable)
- Inductive sensors for oil flow and oil level detection test
- Load Change Dependent (L.C.D) functioning check (if applicable)
- Shaft coupling condition check
- System check for oil leakage
- Feed rate measurement and adjustment

Improperly adjusted mechanical lubricators may lead to:

- Excessive oil consumption
- Piston ring wear
- Cylinder liner polishing
- Risk of scuffing

Our technical team ensures correct adjustment according to engine maker specifications and operational profile.

