

equipment inspections

Overview

Helping customers lower their overall marine lubrication costs through equipment inspections is a goal shared by ExxonMobil engineers worldwide. By documenting the performance of a lubricant and the condition of the equipment, they can offer advice that may allow a ship owner to reduce unscheduled downtime and take other money-saving actions.

Listed below are some of the skills and resources our engineers offer.

Description

- Inspect, report, and document the condition of critical equipment components
- Inspect critical vessel equipment including crosshead two-cycle diesel engines, four-stroke diesel engines, hydraulic systems, gear drives, and bearings
- Utilize inspection results to improve the life and performance of Marine equipment
- Estimate the impact on equipment life of recommended improvements in operation and maintenance practices

Application

- Identify critical equipment for inspections
- Schedule inspections to occur during appropriate vessel/equipment availability
- Allow for inspections during unscheduled outages or failures
- Record the condition of each component, document with photographs (where allowable), and communicate wear trends to vessel/office technical personnel
- Compare the results with previous inspection data (if applicable), industry and equipment benchmarks, and correlate to vessel equipment monitoring programs
- Document the value of this service and related benefits
- Present and distribute the completed report to technical and other applicable management



During inspections, ExxonMobil engineers document lubricant performance and equipment condition to help customers optimize reliability.

Deliverable

Engineering Service Report outlining conditions found, recommended corrective actions, improvements to operational or maintenance procedures, and the value of the service rendered to the customer. The report will include photographs and tables as appropriate.

Potential Benefits

- Reduced unscheduled downtime
- Increased productive capacity of equipment
- Lower maintenance labor costs
- Fewer equipment/component replacements
- More effective maintenance control
- Safety and environmental improvements

Safety, Health and Environmental Awareness

ExxonMobil lubrication specialists:

- Coordinate efforts through designated plant personnel
- Strictly observe the site's safety rules and ExxonMobil's safety practices
- Verify equipment electrical and mechanical lockout, proper tagging and potential explosion hazards prior to working on or inspecting equipment