
Lubrication And Reliability Management

*A New Concept In Significant Reliability Improvements
...Through Outsourced Lubrication Stewardship.*

L.A.R.M. Survey Guidelines

I. Rotating Equipment with Wet Oil Sump.

A. Proper oil level - each piece of equipment must have the proper oil level maintained, unless on pure *LubriMist*[®].

B. Oil level marked on bearing housing.

1. Each piece of equipment must have the oil level clearly and permanently marked on the bearing housing.

2. Each lube point should be marked or tagged for the lubricant type used.

C. Oil appearance OK - Oil visible in sight glass is uncontaminated.

D. No water in oil.

1. A sample drawn from the oil sump must be water free and no water visible in sight glass.

2. Water drain, sight bottles and correct grease fittings installed.

3. Each oil sump should have a low point drain with a sight glass installed

4. Each oil sump should have a constant level oilier installed.

5. Grease applications must have an accessible fitting.

6. Sight glasses and oil bowls clean - sight glasses and oil bowls must be maintained to as new visibility.

II. Rotating Equipment with *LubriMist*[®]

A. Low point lube condensate drain must not have excess oil present (no more than half full)

B. Equipment must have clear sight glass condensate manifold installed.

C. Tube to and from bearing housing should have no kinks or traps that will restrict flow.

D. Condensate condenser should be up right with drain over oily water sewer. Condensers with new box containers should be no more than half full.

III. General Items.

A. Equipment should be marked with a tag showing (suction, discharge, flush pressure) also flush temperature.

- B. Equipment should have tag also showing lube type for each lube point**
- C. Gauges must be in good working condition with clean and readable faces**
- D. Pumps with seal flush cooler and or orifice should be marked and checked on a regular bases with unit log sheet.**
- E. Coupling guards must have at least one bolt installed per side.**
- F. Equipment appears to have been cleaned on regular bases and free of foreign objects on or around pump base (water, oil, exct.) drained from base.**

J. Look for lube containers setting around unit not stored in weather proof cabinet or shed.

K. The lube storage room or cabinet must be clean with no puddled oil.

L. Paper products to soak up spills is allow and must be serviced as needed, granulated oil dry material should not be used or stored in the area.

V. Operator Knowledge - questions answered satisfactorily.

IV. Lubrication Area Maintenance and Housekeeping

A. Lubricants stored in designated area.

B. Storage area should be an enclosed, weather proof cabinet or building, designated for lubrication only and free of oily rags and anything not lube related.

C. Lubrication containers marked and clean with no unsealed oil containers on unit.

D. All lubricant containers, oil jugs and grease guns must be clearly marked with the type of lubricant it contains or that it is used for.

E. Each type of oil and grease must have a separate container to prevent cross contamination of lubricants.

F. All jugs and grease guns must be kept clean and free of any substance other than the specified lubricants. No open top oil cans allowed on unit. Oil drums stored properly.

H. Oil drums should be stored in a weatherproof building, if they are stored outside, they must be laid on their side. All bungs and or valves secured to prevent contamination.

I. All oil drums laid on their side with valves or spigots installed for use must have a drip pan under the outlets to contain the drips. The drip pan must be monitored and emptied to prevent run over.