



Application Tech Sheet

Lube Oil

Industry: All Industries Using Large Rotating Machinery

Many industries have lube oil systems for their large rotating machinery. A few examples are: Power, Portland cement production plant, Manufacturing, Mining, and Pulp and Paper.

Application: Lubricating Oil

Lubricating oil is used to maintain the life and operation of large and expensive machinery (i.e. Turbine oil, Kiln, Mills).

Critical Factors: Accuracy, Low Maintenance, Reliability

- Due to the replacement cost of large equipment, accuracy and reliability are paramount.
- Maintenance is always a concern; the less the customer has to do to maintain the unit the better.

What to watch for:

- Temperature, pressure and heavy foam are common factors that can interfere with an instrument's performance.

Installation: Pre-existing mounting can be used to install the echOsonix transmitter and it can be fitted to the current process connection size.

Use SOR®:

Advantages

- AC or DC power supply
- Plain English menus for set-up and calibration
- Transmitter has no direct contact with process
- Loop or line-powered units are available

Benefits

- High performance with a low cost package
- High reliability

Key Questions:

1. What problems are you having with your current device?
2. What pressure and temperature ranges do they see?



Ultrasonic Paradigms:

If the noise level is too high, ultrasonic transmitters will not give a reliable output without using conduit. *echOsonix disproves by providing a reliable and accurate reading even in noisy conditions.*

Other Technology Options:

- Pressure transmitter, Capacitance/RF, Mechanical float – Oil viscosity not suitable for gap probes and can build up on the sensors and floats; high temperatures can also present failure

Similar Applications:

- Bulk coal storage
- Coal crushers/pulverizers
- Alternate fuel storage (rubber, wood pellets)