INDUSTRIAL LUBRICANTS BUILT FOR EXTREME CONDITIONS

AOM 460

Air-Oil Mist Lubricant

AOM 460 is a specialized high-performance lubricant designed specifically for air-oil mist lubrication systems. Blended from premium base fluids with an exclusive additive package, it rapidly transitions from dispersed mist to protective liquid film — ensuring complete surface wetting and long-lasting protection in demanding industrial applications.

AIR-OIL MIST RECLASSIFICATION TECHNOLOGY

AOM 460 is formulated to quickly reclassify from a fine mist into a protective liquid film upon contact with equipment surfaces. Its additive package – including antioxidants, metal deactivators, corrosion inhibitors, anti-wear agents, and EP agents – provides robust protection, while a unique water-blocking system prevents moisture from mixing with the oil.

PRIMARY APPLICATIONS

AOM 460 is the solution for industrial equipment served by air-oil mist lubrication systems:

- Industrial gears subjected to water or contamination
- Slow-speed and heavily loaded bearings
- Machine tools, ways, and screws
- Process pumps, electric motors, and blowers
- Steam turbines requiring reliable long-term lubrication

KEY BENEFITS

- Rapidly reclassifies from mist to liquid for complete surface coverage
- Exclusive water-blocking system prevents moisture contamination
- Outstanding turbine oxidation stability – 4,000+ hours per ASTM D-943
- Four Ball EP weld point of 400 kg and 60 lb. Timken load
- High viscosity index (96) for consistent performance across temperatures
- Reduces equipment wear for reliable continuous operation

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RAPID RECLASSIFICATION FOR EFFICIENT DELIVERY

AOM 460 is specifically engineered to quickly convert from a fine mist back into a liquid lubricant upon contact with equipment surfaces — ensuring complete and consistent coverage that minimizes wear and provides reliable protection.

EXCLUSIVE WATER-BLOCKING SYSTEM

AOM 460's unique formulation prevents water – whether from compressed air moisture or external sources – from becoming mixed with the oil, maintaining its lubricating properties and protective additives over the full-service interval

OUTSTANDING OXIDATION STABILITY

With over 4,000 hours of oxidation life under ASTM D-943 testing and a Rotary Bomb Oxidation time of 400 minutes, AOM 460 resists breakdown over extended service intervals – therefore reducing oil change frequency and total lubrication costs.

FULL EXTREME PRESSURE PROTECTION

The EP additive system provides a 400 kg Four Ball weld point and a 60 lb Timken load rating — ensuring AOM 460 protects gears and bearings against metal-to-metal contact even under heavy loading conditions.

CONSISTENT PERFORMANCE ACROSS TEMPERATURES

A high viscosity index of 96 ensures AOM 460 maintains appropriate viscosity across varying operating temperatures – providing effective lubrication whether equipment is starting cold or operating at sustained elevated temperatures.

BROAD INDUSTRIAL APPLICATION COMPATIBILITY

Designed for industrial gears, slow-speed bearings, machine tools, process pumps, electric motors, blowers, and steam turbines – AOM 460 provides versatile, reliable lubrication across diverse industrial equipment.

Typical Physical & Performance Characteristics

Property / Test Method	Result
Appearance	**Clear & Bright**
Kinematic Viscosity @ 40°C, cSt, ASTM D-445	442.4
Kinematic Viscosity @ 100°C, cSt, ASTM D-445	29.8
Viscosity Index, ASTM D-2270	96
API Gravity, ASTM D-4052	25.3
Density @ 60°F / 15.6°C, lb/gal	7.53
Pour Point, °F (°C), ASTM D-97	24 (–4)
Flash Point, °F (°C), ASTM D-92	575 (302)
Demulsibility, ASTM D-1401	41-39-0 (25)
Color, ASTM D-1500	L2.5
Timken OK Load, lbs.	60
Four Ball Wear – Scar, 20 kg, mm	0.57
Four Ball EP – Weld, kg	400
Copper Corrosion, 3 hrs. @ 100°C	1b
CIGRE Turbine Oxidation, TOP [1]	0.38
Turbine Oxidation, Hours, ASTM D-943	4,000+
Rotary Bomb Oxidation, Minutes, ASTM D-2272	400

[1] TOP exceeding 1.0 indicates poor oxidation stability

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