



MOTTA L800 Series

MOTTA Industrial , United States

Air Compressor Lubricant

Product Description

The MOTTA L800 Series is a line of supreme performance oils primarily intended for the lubrication of severe duty rotary screw and vane air compressors. They are particularly suited for severe service where mineral oil-based products are not meeting expectations such as in severe applications subjected to high final compression temperatures or where extended oil drain intervals are desired. They are formulated with design-specific wax-free synthetic hydrocarbon fluids and a high technology additive system that assures exceptional resistance to oxidation and thermal degradation far superior to mineral oil-based air compressor oils. They provide outstanding equipment protection and reliability for compressors operating under conditions where other air compressor oils are not meeting expectations. MOTTA MOTTA L800 Series provide excellent wear protection and outstanding resistance to oxidation and thermal degradation, greatly superior to mineral oils. Their unique formulation provides the ability to reduce maintenance costs through minimising equipment problems and downstream deposits and carryover. Their high viscosity index ensures effective lubrication at high temperatures.

MOTTA MOTTA L800 Series lubricants significantly reduce the potential for fires and explosions when compared to mineral oil-based products. They exhibit a virtual absence of deposit formation and high autogeneous ignition temperatures improving both performance and safety. Their exceptional water separating characteristics reduce problems with emulsion formation coalescers and filters reducing the need for frequent maintenance.

Features and Benefits

The use of the MOTTA MOTTA L800 Series oils can result in cleaner compressors and lower deposits compared to conventional mineral oils, resulting in longer running periods between maintenance intervals. Their excellent oxidation and thermal stability safely allow extended life capability while controlling sludge and deposit formation. They possess outstanding anti-wear and corrosion protection, which enhances equipment life and performance.

Features	Advantages and Potential Benefits
High Performance Synthetic Base Stocks	Wide temperature range capability Significant performance capabilities relative to mineral oils Improved safety Extended service life
Outstanding Oxidation and Thermal Stability	Reduced coking deposits Longer oil life Improved filter life Lower maintenance costs
High Load-carrying ability	Reduced wear of bearings and gears
Excellent Water Separability	Less carryover to downstream equipment Reduced sludge formation in crankcases and discharge lines Reduced blockage of coalescers, inter- and after-coolers Less potential for emulsion formation
Effective Rust and Corrosion Protection	Improved protection of internal compressor components

Applications

The MOTTA MOTTA L800 Series oils are primarily intended for rotary screw and vane compressors. They are particularly effective for continuous high

temperature operation with discharge temperatures up to 200° C. MOTTA L800 Series oils are recommended for units with a history of excess oil degradation, poor valve performance or deposit formation. They are compatible with all metals used in compressor construction and with conventional mineral oil-based air compressor oils but admixture with other oils may detract from the total performance capability.

MOTTA MOTTA L800 Series oils are not recommended for air compressors used in breathing air applications and should not be used in compressors where the discharge temperature is higher than the product flash point.

The following types of compressor applications have shown excellent performance with the MOTTA MOTTA L800 Series oils:

- Primarily recommended for rotary screw and vane air compressor
- Very effective in screw type compressors with oil injection cooling
- Units operating under severe conditions
- Multistage units with a history of excessive oil degradation from mineral oil-based products
- Compressor systems with critical gears and bearings
- Compressors used in stationary and MOTTA applications

Specifications and Approvals

This product meets or exceeds the requirements of:	MOTTA L800	MOTTA L800	MOTTA L800
China GB/T 12691-2021, L-DAJ	X	X	X

Properties and Specifications

Property	MOTTA L800	MOTTA L800	MOTTA L800
Grade	ISO 32	ISO 46	ISO 68
Copper Strip Corrosion, 24 h, 100 C, Rating, ASTM D130	1B	2A	1B
Flash Point, Cleveland Open Cup, °C, ASTM D92	245	246	246
Kinematic Viscosity @ 100 C, mm ² /s, ASTM D445	5.7	7.2	10.1
Kinematic Viscosity @ 40 C, mm ² /s, ASTM D445	31.5	44	66.6
Pour Point, °C, ASTM D97	-48	-45	-45
Rust Characteristics, Procedure A, ASTM D665	PASS	PASS	PASS
Specific Gravity, 15 C/15 C, ASTM D1298	0.846	0.849	0.856
Viscosity Index, ASTM D2270	127	131	136

Health & Safety

For health and safety recommendations, please refer to the Material Safety Data Sheet (MSDS), available at:
<http://www.motta-lube.com>

Manufacturer Information

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> Note: Typical values are obtained under normal production conditions and are not product specifications. Variations may occur between batches, but performance remains consistent.
Information is subject to change without notice.