



AAR 963 Oil

AAR 963 Oil is a high-quality lubricant specially developed for year-round lubrication of plain journal bearings in railcar journal boxes. It meets the requirements of the American Association of Railroads (AAR) Specification M-963-84 for All-Year Journal Box Lubricating Oil.

AAR 963 Oil is specially formulated for excellent year-round performance. It has good lubricity and antiwear properties to protect heavily loaded railcar journal bearings, provides protection against rust and corrosion, and has good foam resistance.

Applications

- Plain journal bearings in railcar journal boxes
- Traction motor suspension bearings on locomotives

AAR 963 Oil meets or exceeds the requirements of:

- AAR Specification M-963-84

Features/Benefits

- Formulated for year-round use
- Good wear protection
- Protects against rust and corrosion
- Good foam resistance

Railroad Journal Bearing Lubricant

CONTACT INFORMATION

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AAR 963 Oil

Typical Properties

ISO Grade	46
Specific Gravity @ 60°F	0.874
Density, lbs/gal @ 60°F	7.28
Color, ASTM D1500	0.5
Flash Point (COC), °C (°F)	235 (455)
Pour Point, °C (°F)	-37 (-35)
Viscosity,	
cSt @ 40°C	50.0
cSt @ 100°C	8.4
SUS @ 100°F	255
SUS @ 210°F	54.4
Viscosity Index	143
Foam Test, ASTM D892, Seq. I, ml	0/0
Humidity Cabinet Test, ASTM D1748	Pass
Moisture, ASTM D95, wt %	<0.1
Pentane Insolubles, ASTM D893 B, wt %	<0.1
Rust Test, ASTM D665 A&B	Pass

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3apps.phillips66.com/NetMSDS>.

Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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