

Mobil Vacuoline™ 1400 Series

Hydraulic and Way Lubricants

Product Description

Mobil Vacuoline™ 1400 Series oils are extra high performance lubricants specifically designed to satisfy the requirements of machine tools that use one oil for both hydraulic systems and way lubrication. They are formulated using high quality mineral base oils and a unique additive technology that provides excellent lubricity properties to eliminate stick-slip and chatter of heavily loaded and vertical box ways. They exhibit a high degree of oxidation and thermal stability that increases the service life and helps keep lubricated surfaces clean and free from corrosion or deposits that could detract from finished parts quality and accuracy. Mobil Vacuoline 1400 Series oils provide the optimum balance between these divergent requirements.

These products are the result of an innovative technology to meet the low frictional properties required to assure acceptable production levels of quality parts with minimum downtime in today's high output machine tools. They exhibit the ability to inhibit oxidation and the formation of lacquers and deposits on ways and in hydraulic systems while providing excellent load-carrying performance to control component wear and extend equipment service life.

Features and Benefits

The Mobil Vacuoline 1400 Series oils have been developed to provide an extra margin of machinery protection by satisfying the requirements of hydraulic systems while meeting the stringent demands of the ways. Their outstanding oxidation and thermal stability characteristics improve machine cleanliness and reduce the needs for frequent maintenance services. The dual purpose nature does not compromise either hydraulic system performance or the stick-slip or chatter of ways allowing their effective use in both systems while reducing the potential negative effects of cross contamination of lubricants and water or water-based coolants.

Features	Advantages and Potential Benefits		
	Eliminates stick-slip and chatter of ways		
Low Frictional Characteristics	Improves precision of parts		
	Provides consistent good work piece finish		
	Allows extension of service intervals		
Oxidation and Thermal Stability	Reduces deposit and sludge formation		
	Keeps equipment lubricated surfaces clean		
Don't and Commercian Boots stion	Maintains excellent finish on ways		
Rust and Corrosion Protection	Reduces maintenance for rust and corrosion removal		
Water and Water-Based Separability	Reduces the negative effects of these materials on working		
	surfaces		
	Enhances aqueous coolant batch life and performance		
	Facilitates removal of water and water-based coolants from		
	hydraulic systems and enhances service life		
Adhesive Properties	Resists wash-off from ways		
	Protects surfaces from rust and corrosion		
	Assures consistent parts finish and accuracy		
Load-Carrying Properties	Reduce wear		
	Extend equipment life		
Multi-metal Compatibility	Provides protection of ferrous and non-ferrous components		
	Eliminates concerns of cross contamination and product		
Dual Purpose Design	mis-application		
-	Reduces need of extra product		

Applications

Machine tools with a common system for hydraulics and way lubrication

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- · Applications where cross-contamination of way lube with hydraulic oil can result in poor performance
- Machinery with separate systems for ways and hydraulics where one oil is desirable for both systems
- Areas where conventional mineral based lubricants are not adequately protecting way surfaces

Specifications and Approvals

Mobil Vacuoline 1400 Series has the following builder approvals:	Mobil Vacuoline 1405	Mobil Vacuoline 1409	Mobil Vacuoline 1419
BIJUR PT 37-1	Χ	X	X

Typical Properties

	Mobil Vacuoline 1405	Mobil Vacuoline 1409	Mobil Vacuoline 1419
ISO Viscosity Grade	32	68	220
Viscosity, ASTM D 445			
cSt @ 40°C	32	68	215
cSt @ 100°C	5.3	8.57	19.0
Viscosity Index, ASTM D 2270	96	96	96
Copper Strip Corrosion, 3 h @ 100°C, ASTM D 130	1B	1B	1B
Rust Characteristics, ASTM D 665A	Pass	Pass	Pass
Pour Point, °C, ASTM D 97, (max)	-12	-6	-6
Flash Point, °C, ASTM D 92	210	218	257

Health and Safety

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or via the Internet. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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Typical Properties are typical of those obtained with normal production tolerance and do not constitute a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice. All products may not be available locally. For more information, contact your local ExxonMobil contact or visit www.exxonmobil.com

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