

Mobil SHC™ 500 Series

High-quality synthetic hydraulic oils offering exceptional performance



Energy lives here™

Product features

Mobil SHC™ 500 Series hydraulic oils are designed to offer:

- Superior shear stability, preventing permanent viscosity loss*
- Excellent multi-metal compatibility
- Controlled demulsibility
- Superb foam control and air-separation properties

3X
longer oil life*

Potential benefits

Mobil SHC 500 Series hydraulic oils can provide:

- 1** Optimum protection, reducing corrosion, deposits and sludging, which has the potential to improve equipment performance
- 2** Lower operating costs by extending component and oil life, minimising maintenance downtime and waste disposal

Recommended applications

High-pressure vane pumps	✓
Piston pumps	✓
Gear pumps	✓
Axial pumps	✓

Optimum equipment protection

Mobil SHC 500 Series hydraulic oils were developed in conjunction with major original equipment manufacturers to meet the stringent requirements of severe hydraulic systems using high-pressure, high-output pumps. They also handle the critical requirements of other hydraulic system components such as close-clearance servo valves and high-accuracy, numerically controlled machine tools.

*Compared to standard mineral oils.

Mobil SHC™ 500 Series

Greatly outperform standard mineral oils

Formulated from unique synthetic base oils with a high viscosity index and a proprietary additive system, Mobil SHC™ 500 Series hydraulic oils offer performance advantages that mineral oils cannot match. They can provide:

- Long oil life – lasting up to three times longer than standard mineral oils
- Extended time between oil drains and filter changes*
- The potential to reduce hydraulic system energy consumption*



Typical properties

Mobil SHC 500 Series	524	525	526	527
ISO Viscosity Grade	32	46	68	100
Viscosity, ASTM D 445				
cSt @ 40°C	32	46	68	100
cSt @ 100°C	6.4	8.54	11.52	15.94
Brookfield Viscosity @ -18°C, ASTM D 2983, cP	923	1376	2385	4500
Viscosity Index, ASTM D 2270	144	154	158	160
Density 15°C, ASTM D 4052, kg/L	0.852	0.8514	0.8535	0.8576
Copper Strip Corrosion, ASTM D 130, 3 hours @ 100°C	1B	1B	1B	1B
Rust Characteristics, ASTM D 665B	Pass	Pass	Pass	Pass
FZG Gear Test, DIN 51354, Fail Stage	9	10	11	11
Pour Point, °C, ASTM D 97	-56	-54	-53	-52
Flash Point, °C, ASTM D 92	234	238	240	243
Foam Sequence I, II, III, ASTM D 892, ml	50/0	50/0	50/0	50/0
Demulsibility, ASTM D 1401, 54C, minutes to 3ml emulsion		20	20	20
Demulsibility, ASTM D 1401, 82C, minutes to 3ml emulsion				20

Superior protection and performance across a wide temperature range

*Compared to standard mineral oils.