

# Product Data Sheet

## Mobil SHC 500 Series Synthetic Oils for Hydraulic Systems

### Product Description

Mobil SHC 500 Series products are premium quality hydraulic fluids based on Mobil patented synthesised hydrocarbon technology. They are fortified with a special additive package which gives excellent performance in the synthesised base oil.

### Benefits

Mobil SHC 500 Series products offer the following benefits:

- Inherent high Viscosity Index gives very wide range of operational temperatures during whole service life
- Ideal fluids for conditions involving high rates of shear where high Viscosity Index fluids are required
- Good multi-metal compatibility under all operating conditions
- Complete compatibility with conventionally refined mineral oil hydraulic fluids and all seals and gaskets normally used with them
- Excellent protection against rust and corrosion and the formation of foam
- Good demulsibility and lubricating properties in the presence of water
- Up to four times longer service life than conventional mineral oil fluids due to minimal formation of oxidation and degradation products and lacquers at high operating temperatures and pressures
- Increased hydraulic system efficiencies due to the low traction co-efficient inherent in synthesised hydrocarbon formulations
- Superior low temperature pumpability makes these oils highly suitable for low temperature applications down to -50°C
- Reduced mechanical wear in pumps, valves, motors and actuators
- Reduced downtime and minimal mechanical wear lead to lower maintenance expenditure

### Applications

Mobil SHC 500 Series products are primarily recommended for hydraulic systems, operating under arduous closed loop conditions of high temperatures or widely varying temperatures in industrial, marine and mobile service.

### Properties

Mobil SHC 500 Series products incorporate an efficient additive system in a blend of olefin oligomers and a synthetic ester. Olefin oligomers are synthetic fluids produced by a Mobil patented process. This produces base fluids with known consistent characteristics which have a chemical and thermal stability far in excess of those attributable to fluids made from crude oil by conventional refining methods.

This excellent high temperature stability characteristic reduces to the minimum the formation of oxidation products and lacquers which can form on valves and other close fitting elements in hydraulic systems to result in erratic and impaired response and faulty operation.

Mobil SHC 500 Series products are fully approved by leading hydraulic pump manufacturers.

## Health and Safety

Based on available toxicological information, it has been determined that this product poses no significant health risk when used and handled properly.

Details on handling, as well as health and safety information, can be found in the Material Safety Data Bulletin which can be obtained through Mobil Oil Company Ltd., by telephoning 01372 22 2000.

Typical physical characteristics are given in the table. These are intended as a guide to industry and are not necessarily manufacturing or marketing specifications.

## Product Characteristics

---

<b>Mobil SHC</b>	<b>524</b>	<b>525</b>	<b>526</b>
ISO Viscosity Grade	32	46	68
Viscosity, cSt at 40°C	32.0	46.0	68.0
Viscosity, cSt at 100°C	6.1	8.5	11.5
Viscosity Index	140	154	158
Pour Point, °C	-54	-54	-54
Flash Point, °C	234	238	240

---

Due to continual product research and development, the information contained herein is subject to change without notice

---

**Mobil Oil Company Limited**  
**Acting as Agent for Mobil Lubricants UK Limited**  
**ExxonMobil House, Ermyn Way**  
**Leatherhead, Surrey, KT22 8UX**  
**Telephone: 01372 22 2000**

