

# Product Data Sheet

## Mobil DTE H Series High Performance Hydraulic & Lubricating Oils

### Product Description

Mobil DTE H Series are a range of mineral oil based hydraulic and lubricating quality oils conforming to the international classification ISO Type HM and DIN 51526 Part 2 'Hydraulic Oils Type HLP'. They are formulated from solvent-refined base oils and incorporate additive treatments to provide excellent service life with protection against corrosion, wear, oxidation and foaming.

### Benefits

Mobil DTE H Series offer the following benefits:

- Excellent protection of machinery and systems against wear and corrosion
- Excellent service life associated with excellent resistance to oxidation and thermal degradation
- Excellent anti-foam and de-aeration performance
- Compatible and miscible in storage and service with most other mineral oils
- Good filterability for use in conjunction with most hydraulic and lubricating oil system filters

### Application

Mobil DTE H Series are suitable for most hydraulic systems where high levels of anti-wear and protection are required in conjunction with good service life reliability. They are also suitable for a wide range of other applications machinery lubricants with excellent anti-wear lubrication and resistance to degradation in service are required. In addition to most hydraulic systems, applications can include for example industrial machinery systems incorporating high speed gears and bearings, pumps, blowers and other uses where this type and quality of lubricant can assist with lubricants rationalisation for the ISO Viscosity Grades available.

They are fully compatible with elastomers materials commonly used for static and dynamic seals, e.g.

- Nitril butyl (PERBUNAN\* or BUNA N\*)
- Fluorinated (VITON\*/TEFLON\*)
- Perfluorinated (KABREZ\*)
- Polyurethane (ADIPRENE\*)
- Polyester (HYTREL\*)

Mobil DTE H Series meet the performance requirements of DIN 51524 Part 2 'Hydraulic Oils Type HLP' and of ISO 6743/4 'Hydraulic Oils Type HM' (NF E 48-603 and NF E 60-203).

They meet the specifications/requirements of many major hydraulic equipment builders, including:

- Denison HF-0, HF-2
- Vickers industrial machinery, meets form I-286-S (pump 35V.Q.25)
- Mannesman Rexroth Hydromatik piston pumps
- Sigma-Rexroth gear pumps
- Rexnord-Racine vane pumps
- Cincinnati Milacron (P68-69-70)
- US Steel 136

\* trade marks

## Health and Safety

Based on available toxicological information, it has been determined that these products pose 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.

## Typical Characteristics

DTE H		32	46	68
	<b>Tests and Methods</b>			
ISO VG Classification		32	46	68
Density at 15°C, kg/l	ISO 3675 / ASTM D1298	0.876	0.879	0.882
Flash Point, °C (COC)	ISO 2592 / ASTM D92	216	225	240
Viscosity, cSt at 40°C	ISO 3104 / ASTM D445	32	46	68
cSt at 100 °C		5.4	6.76	8.7
Viscosity Index	ISO 2909 / ASTM D2270	100	100	100
Pour Point, °C	ISO 3016 / ASTM D97	-30	-24	-24
Neutralisation Value, mgKOH/g	ASTM D664	0.50	0.50	0.50
Corrosion-rust protection (B)	ISO 7210 / ASTM D665B	pass	pass	pass
Copper Corrosion 3h/100 °C	ISO 2160 / ASTM D130	1b	1b	1b
Seal Compatibility Index	IP 278	15	13	10
24 h at 100 °C				
Foam Tendency/Stability	ASTM D892	mins		
Sequence I : 24°C		5/0	10/0	10/0
Sequence II : 93°C		20/0	30/0	30/0
Sequence III : 24°C after Sequence II		5/0	10/0	10/0
FZG gear test failure stage	IP 334 / DIN 51354	11	11	11
A/8.3/90 °C				

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

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