



# Mobil Hydraulic Fluids

FILL WITH

**Mobil**<sup>™</sup>

# Mobil hydraulic solutions for low maintenance costs

While the hydraulic system is the heart, oil is the lifeblood that transmits the power. Hydraulic oils must perform even in the most extreme environments. At Mobil, we acknowledge that hydraulic systems are not the same. We are also aware that reducing maintenance costs is one of your primary challenges. Mobil provides a complete range of products and services that are designed to help you reduce unexpected downtimes and lower maintenance costs.



## Advanced Products

Mobil offers a wide variety of OEM-approved, high performance hydraulics fluids that safeguard critical components in challenging operating conditions.



## Exceptional Services

By combining Mobil lubricants with application expertise from skilled engineers with customized lubricant analysis, we can help support your productivity targets.



## Lower Maintenance Costs

The key to finding new cost-cutting opportunities is collaboration between you and your hydraulic oil supplier. Mobil lubricants and services are designed to help you reduce these maintenance costs.

### MobilChat\*

MobilChat, available on desktop and phone, is a new innovative digital service that offers you tailored support and access to in-depth expertise by connecting you directly to human technical experts.



Product recommendation for each application and sector



Recommendation on maintenance





Product technical information and documentation



Mobil alternative products to competitors' products

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# Hydraulic Oil Characteristics

Hydraulic Fluid Characteristics	What Does it Potentially Mean?	Potential Benefits from Mobil Products
Energy Efficiency	<ul style="list-style-type: none"> <li>To reduce energy consumption in hydraulic systems compared to conventional Mobil hydraulic oils*</li> </ul>	<ul style="list-style-type: none"> <li>Potential energy savings in critical operations</li> </ul> 
Hydraulic Efficiency	<ul style="list-style-type: none"> <li>To achieve the most out of the equipment and system</li> <li>To retain the optimum viscosity across a wide temperature range</li> </ul>	<ul style="list-style-type: none"> <li>Energy savings and enhanced productivity in severe operations</li> <li>Aims to reduce maintenance costs</li> </ul> 
Wide Temperature Performance	<ul style="list-style-type: none"> <li>Low pour points sustain good fluidity conditions</li> <li>High viscosity index and shear stability maintain excellent viscosity characteristics</li> </ul>	<ul style="list-style-type: none"> <li>Wide temperature range performance</li> <li>Helps ensure equipment protection at cold start-up temperatures</li> <li>Helps protect system components at high temperatures</li> <li>High shear stability helps enable longer drain intervals</li> </ul>
Zinc Free	<ul style="list-style-type: none"> <li>Zinc is not biodegradable and may be toxic to aquatic organisms</li> <li>Zinc-containing oils can cause corrosion to yellow metals</li> </ul>	<ul style="list-style-type: none"> <li>Helps reduce harm to the environment</li> <li>Meets the needs of modern, high pressure, industrial and mobile equipment</li> </ul>
Anti Wear Properties	<ul style="list-style-type: none"> <li>Critical components last longer and perform better</li> <li>To meet or exceed pump manufacturer requirements</li> </ul>	<ul style="list-style-type: none"> <li>Improve total system performance to meet production targets</li> <li>Helps reduce maintenance costs</li> </ul>
'Keep-Clean' Technology	<ul style="list-style-type: none"> <li>To prevent varnish formation and impede deposit build-up</li> <li>To help keep pumps and other components cleaner for longer</li> </ul>	<ul style="list-style-type: none"> <li>Helps reduce system deposits and sludge to extend equipment life</li> <li>Aims to reduce maintenance costs</li> </ul>
Silicone Free	<ul style="list-style-type: none"> <li>Products that do not contain added silicone as performance additives</li> </ul>	<ul style="list-style-type: none"> <li>Helps offer trouble-free surface coating and adhering processes</li> </ul>
Approvals and Claims	<ul style="list-style-type: none"> <li>To meet or exceed a wide range of the claims, specifications and approvals from global and regional OEM and pump manufacturers</li> </ul>	<ul style="list-style-type: none"> <li>Multi-approved products facilitate product rationalisation</li> <li>Peace of mind</li> </ul>

\* Energy efficiency explained

The energy efficiency design is a trademark of Exxon Mobil Corporation. Energy efficiency relates solely to the fluid performance when compared with Mobil's standard hydraulic fluids. The type of technology used allows up between 3.6% and 6% increase in hydraulic pump efficiency when tested in standard hydraulic applications. The energy efficiency claim for this product is based on test results on the use of the fluid conducted in accordance with applicable industry standards and protocols. Efficiency improvements will vary based on operating conditions and applications. Please check the Product Data Sheet for further details.

# Mobil Hydraulic Fluids - Main Range

Product Line						
Category	Product Series	Stationary or Mobile Equipment	Typical Sectors	ISO Viscosity Grade Range	Viscosity Index Range	Applications
Progressive	Mobil DTE 10 Excel*	Stationary Mobile	Wind, Paper & Pulp, Manufacturing, Food, Heavy Duty Mobile Equipment	15 - 150	156 - 168	<ul style="list-style-type: none"> <li>Systems requiring wide temperature operating window</li> <li>Systems using high-pressure/high-output pumps in which enhanced hydraulic efficiency is desired</li> <li>Systems using close-tolerance servo-valves and benefitting from long service life</li> <li>Zinc-free, low aquatic toxicity is advantageous</li> </ul>
Productive	Mobil DTE Hydraulic Zinc Free	Stationary Mobile	Paper & Pulp, Manufacturing, Heavy Duty Mobile Equipment	22 - 100	107 - 115	<ul style="list-style-type: none"> <li>Systems employing multi-metal designs in pumps and other system components</li> <li>Systems where high pressure vane, piston and gear pumps are present</li> <li>Systems requiring a high degree of load-carrying capability and anti-wear protection</li> </ul>
	Mobil DTE 20 Ultra	Stationary Mobile	Manufacturing, Primary Metals	22 - 100	105 - 112	<ul style="list-style-type: none"> <li>Systems requiring a high load-carrying capability and anti-wear protection</li> <li>Systems using high-pressure/high-output pumps</li> <li>Systems using close-tolerance servo-valves and CNC machines</li> </ul>
Practical	Univis N	Stationary Mobile	Construction, Mining, Manufacturing, Marine	32 - 68	150 - 152	<ul style="list-style-type: none"> <li>Systems where low start-up and high operating temperatures are typical</li> <li>Systems requiring a high degree of load-carrying capability and anti-wear protection</li> </ul>
	Nuto H	Stationary Mobile	Manufacturing, Primary Metals	32 - 68	95 - 107	<ul style="list-style-type: none"> <li>Systems in which mild antiwear properties are required</li> <li>Systems at moderate temperature and pressure requirements</li> </ul>
Base	Mobil Hydraulic AW	Stationary	Manufacturing, Primary Metals	32 - 68	95 - 107	<ul style="list-style-type: none"> <li>Systems in which mild antiwear properties are required</li> <li>Systems at mild temperature and pressure requirements</li> </ul>

Features and Potential Benefits						Approvals, Claims and Specifications				
Hydraulic Efficiency	Wide Temp Performance	Keep-Clean	Anti wear	Zinc Free	Silicone Free	Bosch Rexroth 90245	Denison HF-0	DIN 51524-2 ISO 11158 L-HM	DIN 51524-3	Eaton E-FDGN-TB002-E
★★★★	★★★★	★★★★	★★★★	☐	☐	☐	☐	☐	☐	☐
★★	★★	★★★	★★★	☐	☐	☐	☐	☐	☐	☐
★★	★★	★★	★★★	☐	☐	☐	☐	☐	☐	☐
★★	★★★★	★	★★	☐	☐	☐	☐	☐	☐	☐
★★	★	★	★★	☐	☐	☐	☐	☐	☐	☐
★	★	★	★★	☐	☐	☐	☐	☐	☐	☐

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The claims and specifications listed were valid at the time of publication. Claims may not be relevant for all viscosity grades. Always consult the individual Product Data Sheet for more details.



Drops indicate relative performance level

# Mobil Hydraulic Fluids - Specialties

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The claims and specifications listed were valid at the time of publication. Claims may not be relevant for all viscosity grades. Always consult the individual Product Data Sheet for more details.



Product Line							
Category	Product Series	Technology	Stationary or Mobile Equipment	Typical Sectors	ISO Viscosity Grade Range	Viscosity Index Range	Product Characteristics
Extreme Performance	Mobil SHC 500*	Synthetic	Stationary Mobile	Wind, Pulp and Paper, Cement	32 - 68	144 - 158	<ul style="list-style-type: none"> <li>Synthetic for extreme performance applications</li> <li>Outstanding shear stability</li> <li>For use in high-pressure, high-temperature operating environments</li> <li>Very low temperature properties for outdoor use</li> </ul>
Bio degradable	Mobil SHC Aware Hydraulic*	Synthetic	Stationary Mobile	Construction, Forestry, Agriculture, Marine	32 - 68	144 - 152	<ul style="list-style-type: none"> <li>Environmentally acceptable hydraulic lubricants</li> <li>Readily biodegradable, minimally toxic and non-bio accumulative</li> <li>Comply to the EU EcoLabel certification, Blue Angel and US EPA Vessel General Permit (VGP)</li> </ul>
NSF Registered	Mobil SHC Cibus*	Synthetic	Stationary	Food and Beverage, Paper and Cardboard	32 - 68	134 - 140	<ul style="list-style-type: none"> <li>NSF-H1 registered high performance lubricants</li> <li>Formulated from FDA and NSF registered hydrocarbon base fluids and additives</li> <li>Suitable for Kosher and Halal food preparation</li> <li>Wide range of applications at high and low temperatures</li> </ul>
NSF Registered	Mobil DTE FM	Mineral	Stationary	Food and Beverage, Paper and Cardboard	32 - 68	101 - 106	<ul style="list-style-type: none"> <li>NSF-H1 registered lubricants</li> <li>Variety of food packaging and processing applications</li> <li>Meets a wide range of operating conditions</li> </ul>
Risk of Contamination in Machine Tools	Mobil Hydraulic HLPD	Mineral	Stationary Mobile	Manufacturing, Construction	32 - 68	97 - 102	<ul style="list-style-type: none"> <li>With added detergent/dispersant properties</li> <li>Recommended in machine tools where water based cutting fluids may enter the hydraulic system</li> </ul>
Extra High VI	Univis HVI	Mineral	Mobile	Mining, Construction	13 - 26	376 - 404	<ul style="list-style-type: none"> <li>Premium performance anti-wear characterised by high viscosity indexes</li> <li>Uniform oil viscosity over a very wide temperature range</li> <li>Extreme low temperature applications</li> </ul>
Off Highway	Mobil Hydraulic 10W	Mineral	Mobile	Trucking, Construction, Mining, Agriculture	SAE 10W	109	<ul style="list-style-type: none"> <li>On and off-highway heavy duty applications including multi-metal systems</li> <li>Wide temperature range performance</li> <li>Water Glycol based</li> </ul>
Fire-resistant	Mobil Pyrotec HFC 46	Mineral (Water Glycol)	Stationary	Primary Metals	46	195	<ul style="list-style-type: none"> <li>Inherent resistance to fire hazards</li> <li>Long fluid life due to high oxidation resistance</li> <li>FM approval</li> </ul>
	Mobil Pyrotec HFD -U	Synthetic Ester	Stationary Mobile	Primary Metals, Construction, Forestry, Agriculture	46 - 68	190 - 195	<ul style="list-style-type: none"> <li>Synthetic Ester based</li> <li>Readily biodegradable - meets ECO label and Blue Angel claims (ISO 15380)</li> <li>Wide range of operating conditions</li> </ul>
	Mobil Pyrotec HFD46-B	Synthetic Phosphate Ester	Stationary	Primary Metals	46	185	<ul style="list-style-type: none"> <li>Phosphate ester based, self-extinguishing fire resistance</li> <li>High ignition temperature. If ignited, the flame will self-extinguish</li> <li>FM approval</li> </ul>
Rolling Mills	Wyrol H	Non Staining Base Oil	Stationary	Primary Metals	15 - 32	-	<ul style="list-style-type: none"> <li>Low staining performance for the mills rolling aluminium or yellow metals</li> <li>Very good anti-wear protection and oxidation stability</li> <li>Can be used for products in the food packaging industry</li> </ul>
	Wyrol HS	Synthetic	Stationary	Primary Metals	22 - 46	-	<ul style="list-style-type: none"> <li>Designed for use in modern aluminium rolling mills</li> <li>Low staining characteristics reduce the potential of production rejects</li> <li>Not suitable for food applications</li> </ul>

Features and Potential Benefits					
Hydraulic Efficiency	Wide Temperature Performance	'Keep-Clean'	Anti Wear	Zinc Free	Other Claims
4 drops	4 drops	3 drops	3 drops	Red box	
4 drops	4 drops	3 drops	3 drops	Green box	ECO Label, US EPA VGP 2013
4 drops	4 drops	3 drops	3 drops	Green box	NSF-H1 registered
1 drop	2 drops	1 drop	2 drops	Green box	
1 drop	2 drops	1 drop	2 drops	Green box	HLPD
1 drop	4 drops	1 drop	2 drops	Red box	
1 drop	2 drops	1 drop	2 drops	Red box	
1 drop	4 drops	1 drop	1 drop	Green box	FM - 6930 L-HFC (ISO 12922)
1 drop	4 drops	1 drop	2 drops	Green box	FM approval pending L-HFC (ISO 12922)
1 drop	4 drops	1 drop	2 drops	Red box	FM - Standard 6930 L-HFC (ISO 12922)
1 drop	2 drops	1 drop	2 drops	Green box	
1 drop	2 drops	1 drop	2 drops	Green box	

Drops indicate relative performance level



QUESTIONS? CALL THE

ENGPIL TRADING  
TECHNICAL HELP DESK

04-2822303

[esales@engphil.com.com](mailto:esales@engphil.com.com)

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**Health and Safety**

Based on available information, these products are not expected to produce adverse effects on health when used for the applications referred to above and the recommendations provided in the Material Safety Data Sheets (MSDSs) are followed. MSDSs are available upon request through your sales contact office or via the Internet. These products should not be used for purposes other than the applications referred to above. If disposing of used product, take care to protect the environment.