

# Mobil Hydraulic Oil HLPD Series

Dispersant/detergent type Hydraulic Fluid

## Product Description

Mobil Hydraulic Oil HLPD series are mineral oil-based hydraulic fluids containing a selective additive system, for protection of hydraulic systems, plus the addition of detergent/dispersant additives. Contaminants, deposits and water which may have entered the hydraulic system can damage pump parts, with Mobil Hydraulic HLPD series these are dispersed and held in suspension, and adhering particles/deposits are dissolved. Mobil Hydraulic Oil HLPD series are designed to exceed the general requirements of DIN 51524 part 2 (HLP type), but due to the important presence of the detergent/dispersant properties (to meet the HLPD requirements) some aspects like rapid water separation are not met.

## Features & Benefits

Features	Advantages and Potential Benefits
Emulsion forming properties	Emulsifies water and water mixed cooling fluids, without deteriorating the good anti-corrosion and lubrication properties
Special detergent/dispersant additive system	Excellent keep-clean performance in the hydraulic system
Particular polar additives	Improvement of glide behaviour and prevention of stick-slip, even under severe operating conditions-

## Applications

Mobil Hydraulic Oil HLPD series are suited for use in hydraulic systems, where due to high ingresses of water or contamination a high level of dispersancy is required to prevent water dropout in the system. Mobil Hydraulic Oil HLPD series are particularly recommended for use in hydraulic systems of machine tools, where watermixed cutting fluids may enter the hydraulic system. They can also be used in applications that experience high levels contamination e.g. mobile hydraulic units (excavators, bulldozers, wheel loaders, truck hydraulic systems).



## Typical Properties

Mobil Hydraulic Oil HLPD	32	46	68
Viscosity, ASTM D 445			
cSt @ 40°C	32	46	68
cSt @ 100°C	5,4	6,7	8,6
Pour Point, °C, ASTM D 97	-27	-27	-24
Flash Point, °C, ASTM D 92	205	210	225
Density @ 15 °C kg/l, ASTM D 4052	0,873	0,880	0,882
Load carrying capacity (Brugger), N/mm <sup>2</sup> , E-DIN 51347, part 2	44	44	47
FZG, (A/8,3/90), FLS rating, DIN 51354, part 2	>12	>12	>12

## Health & 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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