Lubricants – Hydraulic oils

Version: **401/11f**

Valvoline™ Ultramax HLP 46

Premium hydraulic oil formulated for industrial and earth moving equipment.
Ultramax HLP hydraulic fluids are based on highly refined mineral oil and enhanced with a stabilized zinc additive system. For systems working under extreme temperature conditions Valvoline recommends the Ultramax HVLP series.

Performance levels
ASTM D6158 HL & HM
Bosch Rexroth RDE 90235
Chinese Standard GB 11118.1 L-HL & L-HM High-pressure & General
Danieli 0.000.001 Revision 15 Type 10 & 11
DIN 51524 Part 1 & 2
Eaton Brochure 03-401-2010
Eaton E-FDGN-TB002-E
Fives Cincinnati P-68, P-69 and P-70
General Motors LS2 Anti-wear hydraulic Oil
ISO 11158 HL & HM
JCMAS HK P041
Parker Denison HF-0, HF-1, HF-2 (Revision L)
SAE MS1004
Swedish Standard SS 155434:2020
U.S. Steel 126
ZF TE-ML 07H

Applications

For mobile and static hydraulic applications of industrial and other equipment.

Hydraulic cranes and lifts, loaders, reach trucks, forklifts, excavators, dumpers, loading ramps, and tailboards.

Sometimes recommended as air compressor oil.

Available in five ISO viscosity grades: 32, 46, 68, 100, 150.

Features & Benefits

Superior performance
The Ultramax HLP range is formulated with premium quality mineral base oils and specially selected additives to guarantee a low pour point, excellent oxidation stability and good flow characteristics. High resistance to oxidation helps extend service life.

Superior protection
The Ultramax HLP hydraulic oil has a high load-carrying capacity and provides good protection against corrosion, foaming, and sludge building. Good anti-wear performance prevents wear of internal components and reduces downtime.

Consistent viscosity
Good viscosity-temperature properties at average and low temperatures. Stable viscosity over a long period. Available in five ISO viscosity grades.

Severe working conditions
Ultramax HLP hydraulic oils can even be used in unfavorable working conditions, like road building and mining or work in damp conditions. The product can handle small quantities of penetrating dust or water and resists foaming, caused by access of air via leaking seals.

Keeping the world moving since 1866™
Serving more than 100 countries around the globe, Valvoline is a leading marketer, distributor and producer of quality branded automotive and industrial products and services. Products include automotive lubricants; transmission fluids; gear oils; hydraulic lubricants; automotive chemicals;

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specialty products; greases, and cooling system products.

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Typical properties
Typical property characteristics are based on current production. Whilst future production will conform to Valvoline specifications, variations in these characteristics may occur.

Ultramax HLP 46	
Colour, ASTM D-1500	0,5
Viscosity, mm^2/s @ 100 ºC. ASTM D-445	6,9
Viscosity, mm^2/s @ 40 ºC. ASTM D-445	47
Viscosity Index ASTM D-2270	104
TAN; mg KOH/g ASTM D-664	0,4
Pour Point, ºC ASTM D-5949	-39
Specific Gravity @ 15.6°C. ASTM D-4052	0,869
Flash Point, COC, ºC. ASTM D-92	222

This information only applies to products manufactured in the following location(s): Europe

Health & Safety
This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office or via the internet **http://sds.valvoline.com**

Protect the environment
Take used oil to an authorized collection point. Comply with local regulations. Do not discharge into drains, soil or water.

Storage
We recommend storing all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.

Replaces – 401/11e

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