



TECHNICAL DATA SHEET

AIMOL Hydraulic Oil HVLP

All-season hydraulic oil for a wide operation temperature range

DESCRIPTION

AIMOL Hydraulic Oil HVLP is a range of high viscosity index hydraulic fluids based on high quality mineral base oils and composition of additives. Specially developed for all-season use in heavy-duty equipment (excavators, bulldozers, forklifts, tractors, forest equipment, cranes, drilling rigs, etc.). Due to high viscosity index and very low pour point, oil is adapted for regions with extremely low operation temperatures. While using this oil, leakages inside of pump reduces and oil provides a high effectiveness of work at high loads. AIMOL Hydraulic Oil HVLP fully satisfies DIN 51524 part 3 (HVLP) specification, has high oxidative stability, with high thermal and hydrolytic stability and provides outstanding protection against wear of gear, rotary vane, axial piston pumps.

APPLICATION

- ◆ Off-road mobile equipment, working in regions with wide temperature range
- ◆ Industrial equipment, operating outdoor
- ◆ Heavy-duty hydraulic systems and points, operating with big differences of temperatures and where high lubrication film required
- ◆ Gear, rotary vane, axial piston and radial piston pump

BENEFITS

- ◆ High viscosity index and low pour point for wide operation temperature range
- ◆ High operational properties of equipment, reducing of failure times and increasing its efficiency at high drain intervals of oil cause of high level of anti-wear properties and strength of lubricant film
- ◆ Suitable for hydraulic systems made of different metals
- ◆ Protects the details from corrosion and reduces negative effect caused by the presence of water
- ◆ Good water separation properties protect from forming of high-viscosity emulsions with water, that damage pumps
- ◆ Oil doesn't degrade, what provides reducing of sludge and deposits formation, guarantees extra high system cleanliness
- ◆ Superior chemical stability in presence with some quantity of water
- ◆ Compatible with most hydraulic HVLP type fluids based on mineral oil
- ◆ High cleanliness grade

PERFORMANCE LEVEL

AIMOL Hydraulic Oil HVLP – meets and exceeds following requirements and specifications:

- ◆ DIN 51524 part 3 (HVLP)
- ◆ ISO 6743/4 HV
- ◆ Denison HF-0, HF-1, HF-2
- ◆ AFNOR NF E 48-603 HV
- ◆ Eaton Vickers M-2950S, +286
- ◆ Cincinnati Milacron P68/P69
- ◆ Bosch Rexroth 90220

TYPICAL FIGURES

Parameter	Test method	HVLP 32	HVLP 46
Density @ 20 °C kg/m ³	ASTM D1298	0.872	0.878
Flash point C.O.C., °C	ASTM D92	192	203
Viscosity @ -30 °C, mm ² /s	ASTM D4052	2912.2	6206.7
Viscosity @ -20 °C, mm ² /s	ASTM D4052	1097.5	2126.3
Viscosity @ 0 °C, mm ² /s	ASTM D4052	237.8	397.4
Viscosity @ 40 °C, mm ² /s	ASTM D445	33.1	46
Viscosity @ 100 °C, mm ² /s	ASTM D445	6.75	8.2
Viscosity index	ASTM D2270	167	154
Pour point °C	ASTM D97	-40	-35
Acid number, mg KOH/g	ASTM D664	0.6	0.6
Anti-wear test FZG	FZG A/8.3/90	≥11	≥11
Cleanliness code	ISO 4406	19/16/12	
Oxidative stability ASTM D943, h	ASTM D943	>2000	>2000



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TECHNICAL DATA INFO LINE

Should you require additional information or advice on AIMOL products, please contact us as per the details below.

HEALTH AND SAFETY

AIMOL Hydraulic Oil HLP has no adverse health effects provided it is used as directed.

Typical figures as indicated may vary per production cycle and can change at manufacturers' option. Specifications, however, are guaranteed. Because of continuous product research and development, the information within this data sheet is subject to change without any notification. Although every effort is made to ensure accurate information, A.I.M. bv accepts no liability for any loss or damage suffered caused by the incorrectness and/or incompleteness of this text, and as a result of using this product for any application other than explicitly stated in this data sheet.