

Hydraulic LP

Low Pour Hydraulic Oil



Features & Benefits

- Multi-grade
- HV / HVLP hydraulic fluid
- Expanded operating temperature range
- Excellent corrosion and wear protection for long pump life
- Superior foam resistance for efficient pump operation
- Excellent water tolerance where contamination is unavoidable
- Outstanding oxidation resistance for long service life

Hydraulic LP oils are HV/HVLP high-performance, multi-grade, anti-wear hydraulic oils. They offer the same wear and corrosion protection as traditional hydraulic oils but operate over a broader range of operating temperatures. The allowable temperature range limits the usefulness of hydraulic oil. Low temperatures will cause hydraulic oils to thicken, preventing the oil from feeding the pump fast enough, resulting in noise and wear damage. In high temperatures, oils become thinner, reducing the film thickness between moving parts of the machine and increasing friction and wear.

Typical Results

Method	LP 15	LP 22	LP 32	LP 46	LP 68	LP 100
ASTM COLOUR (D1500) DYED COLOUR	1.0 -	1.0 Blue ¹	1.0 -	1.5 -	1.5 -	2.5 -
VISCOSITY (D445) cSt @ 40°C cSt @ 100°C	14.9 4.0	22.1 5.0	33.9 6.6	45.2 8.1	66.7 11.1	100.0 14.8
VISCOSITY INDEX (D2270)	184	161	154	154	159	154
DENSITY @ 15°C (D4052) (kg/L)	0.84	0.85	0.85	0.86	0.86	0.87
POUR POINT (D5950) (°C)	-59	-43	-45	-41	-38	-33
FLASH POINT (D93) (°C)	174	185	218	219	223	225
FOAM SEQUENCE I, II, III (D892)	≤50/0					
COPPER CORROSION (D130)	1B					
OXIDATION LIFE (D943) (HRS)	5500+	5000+	5000+	4500+	3500+	3500+
ZINC CONTENT (%Wt)	0.04					
DEMULSE (D1401), TIME TO 40/40/0, (MIN.)	15	20	25	10		
DI-ELECTRIC STRENGTH VALUE (kV)	48		-	-	-	-

¹ Hydraulic LP 22B, only. Hydraulic LP 22 is not dyed. All other performance characteristics/testing are identical.

Hydraulic LP oils are true multi-grade hydraulic oils specially formulated to stand up to the high-shear environment of hydraulic pumps and motors without losing their multi-grade nature. This oil allows lower start-up temperature and higher operating temperatures for a given grade than the comparable single-grade hydraulic oil. This more comprehensive operating temperature range provides improved productivity, better operational flexibility and the possibility of using one grade of hydraulic oil year-round. These oils are particularly suited for mobile machinery and fixed machinery located outdoors.

Hydraulic LP oils suit most hydraulic pumps and motors, even at pressures as high as 5,000 psi (350 Bar). They are NOT recommended for use with those pumps that contain silver-plated parts.

Hydraulic LP 15 and 22 are suitable for use in snowplow applications. These grades have excellent cold temperature fluidity and high viscosity index to minimize viscosity fluctuations as the temperature changes. Hydraulic LP 22B is dyed blue for easy leak detection.

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1.800.574.5823

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Specifications

✓ Meets Requirements

Specifications/Claims	LP 15	LP 22	LP 32	LP 46	LP 68	LP 100
DIN 51524-2 (HLP) and DIN 51524-3 (HVLHP)	✓	✓	✓	✓	✓	✓
ASTM D6158 (HV)	✓	✓	✓	✓	✓	✓
ISO 11158 (HV)	✓	✓	✓	✓	✓	✓
SAE MS 1004 (HV)	✓	✓	✓	✓	✓	✓
Parker (formerly Denison) HF-0	-	-	✓	✓	✓	-
Parker (formerly Denison) HF-1	✓	✓	✓	✓	✓	✓
Parker (formerly Denison) HF-2	✓	✓	✓	✓	✓	✓
Eaton M-2950-S, I-286-S3 and 35VQ25 (obsolete)	✓	✓	✓	✓	✓	✓
Eaton E-FDGN-TB002-E	✓	✓	✓	✓	✓	✓
Bosch Rexroth RE 90220, 90240 (obsolete)	✓	✓	✓	✓	✓	✓
GM LS2	✓	✓	✓	✓	✓	✓
Fives P-68	-	-	✓	-	-	-
Fives P-69	-	-	-	-	✓	-
Fives P-70	-	-	-	✓	-	-
AIST 126	✓	✓	✓	✓	✓	✓
AIST 127	✓	✓	✓	✓	✓	✓

Sizes & Order Codes

Size	LP 15	LP 22	LP 22B ²	LP 32	LP 46	LP 68	LP 100
18.9L / 5 US gal Pail	F0081840	F0088440	F0088540	F0088640	F0081740	F0081640	-
205L / 54.2 US gal Plastic Drum	-	F0007550	-	F0007750	-	-	-
205L / 54.2 US gal Metal Drum	-	F0013550	F0007650	F0013650	F0050450	F0033450	F0025050
1000L / 264 US Gal Tote	F0028360	F0007560	-	F0007760	F0028260	F0028160	-
1000L / 264 US Gal Bulk Tote	-	F0108801	-	F0108201	F0110001	-	-
Bulk	B0028301	B0007501	B0007601	B0007701	B0028201	B0028101	B0028001

² Hydraulic LP 22B Oil is dyed blue

Always consult your owner's manual for verification of fluid type and grade!

Supporting data available to demonstrate acceptable performance. Check with your sales associate for latest product approvals.

Please note, these are typical performance indicators and can change without notice.

This data sheet replaces previous versions prior to April 27, 2023.

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