



# HYDRAULIC LP

## Low Pour Hydraulic Oil



### Features & Benefits

- 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
- Expanded operating temperature range

### Typical Results

Test Method	LP 15	LP 22	LP 32	LP 46	LP 68	LP 100
<b>GRADE</b>	ISO 15	ISO 22	ISO 32	ISO 46	ISO 68	ISO 100
<b>COLOUR (D1500)</b>	1.0	1.0	1.0	1.5	1.5	2.5
<b>VISCOSITY (D445)</b> cSt @ 40°C cSt @ 100°C	14.9 4.0	21.7 5.0	33.9 6.6	45.2 8.1	66.7 11.1	100.0 14.8
<b>DENSITY (D4052), kg/L</b>	0.83	0.85	0.85	0.85	0.86	0.87
<b>VISCOSITY INDEX (D2270)</b>	184	166	154	154	159	154
<b>POUR POINT (D5950), °C</b>	-50	-43	-45	-41	-38	-33
<b>FLASH POINT (D93), °C</b>	174	185	218	219	223	225
<b>OXIDATION LIFE (D943), HRS</b>	5000+	5000+	5000+	4500+	3000+	2000+
<b>ZINC CONTENT, (D4951) %WT</b>	0.04	0.04	0.04	0.04	0.04	0.04
<b>DEMULSE (D1401), TIME TO 40/40/0, MIN.</b>	-	-	25	10	10	10
<b>DI-ELECTRIC STRENGTH VALUE, kV</b>	48	48	48	-	-	-

**HYDRAULIC LOW POUR** oils are high performance, multi-grade, anti-wear hydraulic oils. They offer the same wear and corrosion protection as traditional hydraulic oils, but operate over a wider range of operating temperatures. The usefulness of traditional hydraulic oil is limited by minimum and maximum allowable temperatures, unlike the Hydraulic LP. Low temperatures will cause traditional hydraulic oils to thicken, where it can become too viscous to feed the pump fast enough, resulting in noise and wear damage. In high temperatures the oils can become too thin, reducing the film thickness between moving parts of the machine, which increases friction and wear.

**HYDRAULIC LOW POUR** 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. For a given grade, this oil allows lower start-up temperature and higher operating temperatures than the comparable monograde hydraulic oil. This wider 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 use in mobile machinery and fixed machinery located primarily outdoors.

**HYDRAULIC LOW POUR** oils are suitable for use with all types of 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 ZF (Zinc Free)** or **D&E** are recommended when pumps contain these types of metals.

[www.irvingoil.com/lubricants](http://www.irvingoil.com/lubricants)  
1.800.574.5823

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 01-22-20.

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### Specifications

Meets Requirements Of:	LP 15	LP 22	LP 32	LP 46	LP 68	LP 100
DIN 51524-2 (HLP)	✓	✓	✓	✓	✓	✓
DIN 51524-3 (HVLP)	✓	✓	✓	✓	✓	✓
ASTM D6158 (HV)	✓	✓	✓	✓	✓	✓
ISO 11158 (HV)	✓	✓	✓	✓	✓	✓
SAE MS 1004 (HV)	✓	✓	✓	✓	✓	✓
Parker (formerly Denison) HF-0, HF-1, HF-2	-	-	✓	✓	✓	-
Eaton M-2950-S, I-286-S3 and 35VQ25 (Obsolete)	-	-	✓	✓	✓	-
Bosch Rexroth RE 90220, 90240 (Obsolete)	✓	✓	✓	✓	✓	✓
GM LS-2	-	✓	✓	✓	✓	-
Fives P-68	-	-	✓	-	-	-
Fives P-69	-	-	-	-	✓	-
Fives P-70	-	-	-	✓	-	-
AIST 126	-	-	✓	✓	✓	-
AIST 127	-	-	✓	✓	✓	-

### Sizes & Order Codes

Size	LP 15	LP 22	LP 22B	LP 32	LP 46	LP 68	LP 100
18.9L 5.0 US Gal	F0081840	F0088440	F0088540	F0088640	F0081740	F0081640	-
205L 54.2 US Gal (Metal)	-	F0013550	F0007650	F0013650	F0050450	F0033450	F0025050
		F0007550 (Plastic)		F0007750 (Plastic)			
1000L 264 US Gal	F0028360	F0007560	-	F0007760	F0028260	-	-
Bulk Tote	-	F0108801	-	F0108201	F0110001	-	-
Buik	B0028301	B0007501	B0007601	B0007701	B0028201	B0028101	B0028001

Always consult your owner's manual to check the type and grade of fluid to be used!

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