



# Hydraulic LP Oil

## Low Pour Anti-Wear 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



### Typical results

Test Method	15	22	32	46	68	100
ISO GRADE	15	22	32	46	68	100
ASTM COLOUR (D1500)	<1.0	1.0	1.0	1.0	1.0	2.5
DYED COLOUR	-	Blue <sup>1</sup>	-	-	-	-
VISCOSITY (D445) cSt @ 40°C cSt @ 100°C	14.9 4.0	22.1 5.0	33.06 6.5	45.6 7.9	66.1 10.3	97.6 13.6
VISCOSITY INDEX (D2270)	184	161	157	146	142	140
DENSITY @ 15°C (D4052), kg/L	0.84	0.85	0.85	0.86	0.87	0.88
POUR POINT, °C (D5949)	-59	-48 (D97)	-48	-42	-39	-30
FLASH POINT (D93), °C	174	185	212	214	212	214
OXIDATION LIFE (D943), hrs	6500+		6000+		4000+	
ZINC CONTENT (D4951), %wt	0.04					
DEMULSE (D1401), Oil mL – water mL – emulsion mL (mins)	40-40-0 (30)	40-40-0 (30)	37-40-3 (20)	40-37-3 (25)	40-38-2 (25)	40-40-0 (10)
DIELECTRIC STRENGTH (D877), kV	48	48	41	-	-	-
COPPER CORROSION (D130)	1B					
RUST TEST A & B (D665)	PASS					
FOAM SEQUENCE I, II, III (D892), mL/mL	≤ 50/0					

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

Irving Hydraulic LP Oils are HV/HVLP multi-grade, zinc-based anti-wear fluids meeting the demands of modern, high-pressure hydraulic systems.

Irving Hydraulic LP Oils offer the same wear and corrosion protection as traditional hydraulic oils but operate over a broader range of operating temperatures.

Irving Hydraulic LP Oils are versatile, true multi-grade hydraulic oils specially formulated to withstand the high-shear environment of hydraulic pumps and motors. Their unique multi-grade nature allows for lower start-up and higher operating temperatures than comparable single-grade hydraulic oils, enhancing productivity and operational flexibility.

Irving Hydraulic LP Oils suit most hydraulic pumps and motors, from mobile to outdoor fixed machinery, even at pressures as high as 5,000 psi (350 Bar).

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

Irving Hydraulic LP Oils should not be used with pumps containing silver-plated parts. Instead, Irving Hydraulic ZF is recommended for such applications, while Irving D&E oils are suitable for light-duty hydraulic systems with silver-plated parts.

See next page for product specifications and codes.

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

Supporting data available to demonstrate acceptable performance. Check with Sales Associate for the latest product approvals.

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

This data sheet replaces previous versions prior to January 7, 2025.

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



# Hydraulic LP Oil

## Low Pour Anti-Wear Hydraulic oil

### Specifications

✓ Meets requirements

Specification	15	22	32	46	68	100
DIN 51524-3 (HVLP)	✓	✓	✓	✓	✓	✓
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 <sup>2</sup>	✓	✓	✓	✓	✓	✓
Eaton E-FDGN-TB002-E	✓	✓	✓	✓	✓	✓
Bosch Rexroth RE 90220, 90240 <sup>3</sup>	✓	✓	✓	✓	✓	✓
GM LS2	✓	✓	✓	✓	✓	✓
Fives P-68	-	-	✓	-	-	-
Fives P-69	-	-	-	-	✓	-
Fives P-70	-	-	-	✓	-	-
AIST 126	✓	✓	✓	✓	✓	✓
AIST 127	✓	✓	✓	✓	✓	✓

<sup>2</sup> Obsolete Specification

### Sizes & order codes

Size	15	22	22B <sup>3</sup>	32	46	68	100
18.9 L (5 US gal)	F0081840	F0088440	F0088540	F0088640	F0081740	F0081640	-
205 L (54.2 US gal) Plastic Drum	-	F0007550	-	F0007750	-	-	-
205 L (54.2 US gal) Metal Drum	-	F0013550	F0007650	F0013650	F0050450	F0033450	F0025050
1000 L (264 US gal)	F0028360	F0007560	-	F0007760	F0028260	F0028160	-
1000 L (264 US gal) Bulk Tote	-	F0108801	-	F0108201	F0110001	-	-
Bulk	B0028301	B0007501	B0007601	B0007701	B0028201	B0028101	B0028001

<sup>3</sup> 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 Sales Associate for the latest product approvals.

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

This data sheet replaces previous versions prior to January 7, 2025.

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