

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

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 hydraulic oil is limited by minimum and maximum allowable temperatures. Low temperatures will cause hydraulic oils to thicken. If the temperature is too low, the oil will become so thick that it will be unable to feed the pump fast enough causing noise and wear damage. With high temperatures oils become thinner, reducing the thickness of the film between moving parts of the machine. If the temperature is too high, the oil becomes too thin to keep moving surfaces separated, increasing 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 single grade 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

Typical Results

Meets or Exceeds manufacturers and industry test standards	
Denison HF-0, including P-46(piston) and T5D-42(vane) pump test	X
Cincinnati- Milacron P-68,P-69, P-70 (grade 32,68 and 46 respectively)	X
ASTM D-2882, Using Vickers V104C vane pump	X
Bosh Rexoth Corp	X
Sunstrand	X
Linde DIN 51524 Part 2	X

HYDRAULIC OIL	LP 15	LP 22	LP 32	LP 46	LP 68
COLOUR (D1500)	1.0	1.0	1.0	1.0	1.0
VISCOSITY (D445) CST @ 40°C	14.9	22.9	31.9	44.6	69.3
CST @ 100°C	3.9	5.0	6.4	8.1	11.0
DENSITY (D4052), KG/L	0.8531	0.8616	0.8688	0.8745	0.8823
BROOKFIELD VISCOSITY (D2983), CP @ -30°C	1000	1524	3180	5286	14560
VISCOSITY INDEX (D2270)	167	151	159	158	150
POUR POINT (D97), °C	-50	-45	-45	-39	-36
FLASH POINT (D92), °C	180	184	194	210	234
OXIDATION LIFE (D943), HRS	4000+	4000+	4000+	4000+	4000+
ZINC CONTENT, %WT	0.04	0.04	0.04	0.04	0.04
USEFUL OPERATING TEMP RANGE, °C – MIN/MAX	-27/46	-22/58	-18/69	-10/80	-4/93
DEMULSE (D1401), TIME TO 40/40/0, MIN.	5	10	5	10	10
DI-ELECTRIC STRENGTH VALUE	48kv	48kv	48kv	n/a	n/a

Sizes & Order Codes

LP 15	LP 22	LP 22B	LP 32	LP 32B	LP 46	LP 68
18.9L (5.0 US Gal) F0081840	18.9L (5.0 US Gal) F0088440	18.9L (5.0 US Gal) F0088540	18.9L (5.0 US Gal) F0088640	18.9L (5.0 US Gal) N.A	18.9L (5.0 US Gal) F0081740	18.9L (5.0 US Gal) F0081640
205L (54.2 US Gal) N.A	205L (54,2 US Gal) F0013550	205L (54,2 US Gal) F0007650	205L (54,2 US Gal) F0013650	205L (54,2 US Gal) F0028450	205L (54,2 US Gal) F0050450	205L (54,2 US Gal) F0033450
1000L (264 US Gal) N.A	1000L (264 US Gal) F0007560	1000L (264 US Gal) N.A	1000L (264 US Gal) F0007760	1000L (264 US Gal) N.A	1000L (264 US Gal) F0028260	1000L (264 US Gal) N.A
Bulk B0028301	Bulk N.A	Bulk B0007601	Bulk B0007701	Bulk B0028401	Bulk B0028201	Bulk N.A



Blending & Packaging

www.irvingblend.com
1.800.574.5823

Supporting data available to demonstrate appropriate performance.
Check with your Sales Representative for latest product approvals.
Please note, these are typical performance indicators and can change without notice.
This data sheet supersedes any previous version prior to 5/25/2018