



Hydraulic Oil

Anti-Wear Hydraulic oil

Features & benefits

- Great corrosion and wear protection for extended pump life
- Excellent foam resistance for efficient operation
- Excellent water tolerance and separation
- Exceptional oxidation stability and resistance, prolonging fluid life
- Proven sludge and particulate control and improved filterability



Specifications

✓ Meets requirements

Specification	15	22	32	46	68	100
ASTM D6158 HM	✓	✓	✓	✓	✓	✓
DIN 51524-2 HLP	✓	✓	✓	✓	✓	✓
ISO 11158 HM	✓	✓	✓	✓	✓	✓
SAE MS 1004 HM	✓	✓	✓	✓	✓	✓
AIST 126, 127	-	-	✓	✓	✓	-
Fives P-68	-	-	✓	-	-	-
Fives P-69	-	-	-	-	✓	-
Fives P-70	-	-	-	✓	-	-
GM LS-2	-	✓	✓	✓	✓	-
Parker (Denison) HF-0	-	-	✓	✓	✓	-
Bosch Rexroth RE 90220	✓	✓	✓	✓	✓	✓
Eaton-Vickers 35VQ25*, M-2950-S*, I-286-S*	-	-	✓	✓	✓	-

*Obsolete specification

Typical results

Test Method	15	22	32	46	68	100
ISO GRADE	15	22	32	46	68	100
VISCOSITY (D445)						
cSt @ 40°C	14.99	22.29	32.23	45.90	67.93	103.30
cSt @ 100°C	3.46	4.40	5.53	6.91	8.82	11.64
VISCOSITY INDEX (D2270)	106	106	108	106	102	100
ASTM COLOUR (D1500)	<1.0	1.0	1.5	1.5	1.5	2.0
DENSITY @ 15°C (D4052), kg/L	0.85	0.86	0.87	0.88	0.88	0.89
POUR POINT, °C (D5949)	-51 (D97)	-45	-39	-36	-30	-26
FLASH POINT (D93), °C	183	192	205	212	221	227
OXIDATION LIFE (D943), hrs	4500+	4000+		3500+		
ZINC CONTENT (D4951), %wt	0.04					
DEMULSE (D1401), Oil mL – water mL – emulsion mL (mins)	40/38/20 (20)	40/37/3 (15)	40-40-0 (10)	40-40-0 (25)	40-40-0 (10)	40/37/3 (5)
RUST TEST A & B (D665)	PASS					

Irving Hydraulic Oils are formulated with zinc-based anti-wear (AW) additives and high-quality base stocks to meet the demands of modern, high-pressure hydraulic systems.

Irving Hydraulic Oils, designed for longevity, are fortified with additives to provide the best possible wear protection and oxidation stability for increased fluid service life, with an oxidation life of 4,000+ hours for ISO 32.

Irving Hydraulic Oils protect hydraulic pumps and motors from sludge and particulates, improving filterability and protecting critical components with tight tolerances. This, coupled with good air release properties, reduces the wear caused by cavitation. These properties are combined with excellent hydrolytic stability, reducing corrosion and improving the protection of yellow metal parts.

Irving Hydraulic Oils provide superior performance in all critical areas, as proven by industry-standard tests, many of which were developed by the pump manufacturers.

Irving Hydraulic 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 the next page for product 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 1.800.574.5823



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Sizes & order codes

Size	15	22	32	46	68	100
3.78 L (1 US gal)	-	-	F0006626	-	-	-
18.9 L (5 US gal)	F0087640	F0087740	F0082840	F0088140	F0088240	F0087540
205 L (54.2 US gal)	-	F0013150	F0013250	F0013350	F0013450	-
500 L (132 US gal)	-	-	-	-	F0007255	-
1000 L (264 US gal)	-	F0006460	F0006660	F0007060	F0007260	F0006060
1000 L (264 US gal) Metal Tote	-	-	F0128460	-	F0128360	-
1000 L (264 US gal) Bulk Tote	-	F0108701	F0105701	F0109801	F0105801	-
Bulk	B0006101	B0006401	B0006601	B0007001	B0007201	B0006001



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