

Industrial Hydraulic Oil features high-performing base oil combined with an advanced low-zinc, universal anti-wear hydraulic oil additive. It provides premium anti-wear performance, rust, and oxidation protection, and offers excellent demulsibility capabilities, good filterability, and foam-resistance properties.

United Industrial Hydraulic Oil is recommended for service in a wide range of hydraulic systems. It meets the industry's demand for a universal-type hydraulic media suitable for use in systems having vane or axial piston pumps. Low ash and low zinc levels permit its use in automated machine tools and mobile and stationary applications that have stringent filterability requirements.

Features:

- Maximum efficiency of hydraulic systems
- Inhibits wear, rust, corrosion, sludge, and foaming tendencies
- Resistant to oxidation
- Excellent water separation

Applications:

- Both high- and low-pressure hydraulic systems for industrial and mobile applications
- A broad range of industrial applications, machine tools, presses, injection molding machines, central systems, gear cases, and various bearing applications
- Mobile loading and continuous mining equipment where high speeds, heavy loads, and high temperatures are encountered
- Reduction gears and bearings with greater load-carrying requirements than are satisfied by conventional R&O fluids

Meets or Exceeds:

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| • AFNOR E 48-603 | • Ford M-6C32 |
| • B.F. Goodrich 0152 | • General Motors LH-04-1, LH-06-1, LH-15-1 |
| • Cincinnati Machine P-68 (ISO 32), P-70 (ISO 46), P-69 (ISO 68) | • Jeffrey No. 87 |
| • Commercial Hydraulics | • Lee-Norse 100-1 |
| • Denison HF-0, HF-1, HF-2 | • Racine Variable Volume Vane Pumps |
| • Bosch Rexroth RDE 90220 | • US Steel 136, 127 |
| • DIN 51524 Part 2 (ISO 32, 46, 68) | • Vickers M-2950-S (Mobile), I-286-S (Industrial) |

TYPICAL SPECIFICATION DATA

UNITED INDUSTRIAL HYDRAULIC OIL								
ISO GRADE	15	22	32	46	68	100	150	220
Viscosity @ 100°C (cSt)	3.5	4.5	5.4	6.8	8.8	11.1	14.6	18.8
Viscosity @ 40°C (cSt)	15.5	22.3	32.3	46	68.1	100	150	220
Viscosity Index	106	115	100	101	101	96	96	95
Density (lb/gal)	7.08	7.09	7.10	7.20	7.24	7.31	7.33	7.34
Pour Point (°C)	-45	-42	-36	-36	-30	-21	-21	-18
Pour Point (°F)	-49	-44	-33	-33	-22	-6	-6	0
Flash Point (°C)	181	211	227	241	244	246	243	255
Flash Point (°F)	358	412	441	466	471	475	469	490
Turbine Oil Stability Test, hrs.	4,000+	4,000+	4,000+	4,000+	4,000+	4,000+	4,000+	4,000+

PRODUCT AVAILABILITY: ITEM NUMBER								
Package Type	ISO 15	ISO 22	ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220
2 x 2.5 Gal	467330	193019	191244	191248	191252	191259	191261	192934
5 Gal	X	X	X	X	X	X	X	191264
55 Gal	192393	191242	191247	191251	191255	192561	191262	191265
265 Gal	210876	210877	210878	210879	210911	210912	210913	210914
Bulk	191383	192394	192395	192396	192491	191260	191263	192562