## **Technical Data**



## All-Purpose Hydraulic Oil (4932-4934)

Anti-wear hydraulic oil designed to assure longer life for bearings and rubbing surfaces. Contains select base oils for oxidation resistance and an additive package that that offers rust protection, anti-wear properties, and thermal stability. Nonfoaming in service. Recommended for hydraulic systems operating in highly contaminated environments or where high lubricant consumption is a concern.

	4932	4933	4934
Color	Amber	Amber	Amber
ISO Grade	32	46	68
Relative Density @ 60°F/60°F, ASTM D1298	0.864	0.869	
Viscosity @ 100°C, cSt, ASTM D445	5.34	6.76	8.74
Viscosity @ 40°C, cSt, ASTM D445	31.98	46.50	68.12
Viscosity Index ASTM D2270	95	95	95
Flash Point °C (°F) (COC), ASTM D92	222 (432)	230 (446)	244 (471)
Pour Point °C (°F), ASTM D97	-33 (-27)	-30 (-22)	-27 (-17)
Rust Test 4 hrs @ 60°C, Sea H <sub>2</sub> 0, ASTM D665B	Pass	Pass	Pass
Copper Corrosion 3 hrs @ 100°C, ASTM D130	<b>1</b> a	1a	1a
Emulsion Characteristics @ 54°C, oil-water-emulsion/minutes,	40-40-0/15	40-39-1/15	40-40-0/20
ASTM D1401			
<b>Foaming Characteristics</b> @ 24°C/93.5°C/24°C, 3 sequences, ml of foam/time to break, ASTM D892	0/0, 0/0, 0/0	0/0, 0/0, 0/0	0/0, 0/0, 0/0

## **Performance Requirements Met or Exceeded**

- AFNOR NF E 48-603 (HM)
- CETOP RP91H
- Cincinnati Milacron P-68 (4932), P-69 (4934), and P-70 (4933)
- Denison HF-0
- DIN 51524 Part II
- USDA H2
- Vickers I-286-S3 (Industrial) and M-2950-S (Mobile)

## **Typical Applications**

• Applications include both mobile and stationary hydraulic systems that call for an anti-wear hydraulic fluid.



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