



LUBRICANTS



Product Data Sheet

Harmony® AW-HD Hydraulic Fluids

Anti-wear Protection for R&O Gear and Circulating Systems

Zinc-containing heavy duty hydraulic/circulating oils formulated with an advanced additive system designed to provide protection and high performance in hydraulic systems often found in mobile and stationary equipment operating under severe conditions. These oils are suitable for use in a wide variety of both high and low pressure industrial, mobile and marine hydraulic systems utilizing vane, piston, or gear pumps.

Features and Benefits

- Outstanding rust and corrosion protection
- Superior oxidation resistance for extended service life
- Very good anti-foam performance with low air entrainment
- Exceptional anti-wear protection to maximize hydraulic system component life

Applications

- Applications requiring AGMA R&O gear oil
- Hydraulic equipment reduction gears where EP is not required
- Hydraulic presses, winches, hoists, mobile construction equipment, machine tools, air compressors
- Circulating systems for gears and bearings

Typical Properties

ISO Viscosity Grade	Test Method	100	150	220	320
Product Code		334400	334402	334404	334406
AGMA Grade		3	4	5	6
Viscosity, cSt @ 40°C	ASTM D-445	98.5	149.5	210	305
Viscosity, cSt @ 100°C	ASTM D-445	11.5	14.3	18.0	22.6
Viscosity Index	ASTM D-2270	105	93	93	90
Pour Point, °F (°C)	ASTM D-5949	+5 (-15)	+10 (-12)	+10 (-12)	+10 (-12)
Flash Point, °F (°C)	ASTM D-92	480	500	520	530
Rust Test	ASTM D-665 A&B	Pass	Pass	Pass	Pass
Oxidation Stability, hrs.	ASTM D-943	>2000	>1500	>1000	>1000
Foam Stability	ASTM D-892	Pass	Pass	Pass	Pass
API Gravity	ASTM D-1298A	30.5	29.7	28.3	27.6

These properties are typical of current production, minor variations are to be expected in normal manufacturing.

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