



LUBRICANTS



Product Data Sheet

Harmony Synthetic Hydraulic Fluid ZF

Zinc-Free Hydraulic Oil for Demanding Service

High performance, zinc-free lubricants specially formulated to offer excellent low and high temperature performance beyond the capabilities of conventional mineral base industrial hydraulic oil. These specially formulated lubricants are recommended for use in mobile and other hydraulic equipment operating over a wide temperature range. Their superior oxidation stability helps to extend drains and to minimize sludge and varnish deposits.

Features and Benefits

- Outstanding oil life and anti-wear performance
- Ash-less technology helps reduce impact on environment
- Synthetic base stocks provide excellent low temperature performance
- Excellent air release and anti-foam properties helps prevent pump cavitation
- Stable high Viscosity Index (VI) allows for wider temperature operation with consistent viscosity

Applications

- Bosch Rexroth
- U.S. Steel 126, 127, 136
- Parker Dennison HF-0, HF-1, HF-2
- Machine tools, grinders
- Non-detergent oil for compressors
- DIN 51524, Part 2
- AFNOR E 48-603/ISO 11158
- Vane, gear, and axial piston hydraulic pumps
- Die Casting Machines
- Severe service in marine and mobile hydraulic units

Typical Properties

Product Code	Test Method	334328	334330	334332	334334	334336
ISO Grade		22	32	46	68	100
Viscosity, cSt @ 40°C	ASTM D 445	22.5	32.0	46.2	68.5	100
Viscosity, cSt @ 100°C	ASTM D 445	4.8	5.9	7.6	10.2	13.5
Viscosity Index	ASTM D-2270	139	134	134	132	130
API Gravity	ASTM D-4052	33.7	32.6	31.2	30.8	28.6
Flash Point, °F	ASTM D-92	424	428	434	448	464
Pour Point, °C	ASTM D-5949	-44	-42	-40	-40	-40
Copper Corrosion	ASTM D-130	1b	1b	1b	1b	1b
Steel Corrosion, A & B	ASTM D-665	Pass	Pass	Pass	Pass	Pass

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

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