

HyFlo ZF

Bardahl Premium Ash-less Hydraulic Fluids

DESCRIPTION

Bardahl HyFlo ZF is a top-tier range of premium zinc-free, anti-wear hydraulic fluids, designed to deliver exceptional performance in hydraulic power transmissions systems that are subjected to severe duties. Its ash-less formulation allows the HyFlo ZF oil to be used in applications where a zinc containing fluid is prohibited or undesirable, whether due to design or environmental reasons. Zinc-free hydraulic oil is also highly preferred in machine tools where the hydraulic fluids can contaminate the metalworking fluids. At the same time, Bardahl HyFlo ZF is compatible with zinc containing fluids thus broadening its application base.

HyFlo ZF hydraulic fluids demonstrate outstanding filtration performance that prevents filter blockage even in the presence of water. They provide superior wear protection, rust and corrosion inhibition, improved oxidation resistance and thermal stability. Good foam suppression and excellent water separation characteristics ensure efficient hydraulic operations, including those systems with high circulation rate and low residence time.

HyFlo ZF fluids meet or exceed the performance specifications of many major OEMs.

PERFORMANCE STANDARDS

- DIN 51506 VDL
- DIN 51524 Part 2
- Sperry Vickers I-286-S
- AFNOR NFE 48603 (HM)
- Cincinnati Milacron P-68, P-69 and P-70

FEATURES

- Exceptional oxidation and thermal stability
- Superior wear protection for long component and equipment life
- Excellent filterability reduces the need for frequent filter changes which helps to lower maintenance
- Foam inhibition reduces the danger of pump failure due to cavitation
- Very good demulsibility performance allows for quick separation of water from the sump to reduce rust
- Compatible with conventional zinc-based hydraulic fluids
- A versatile product, for use in many applications in addition to being a zinc-free product

APPLICATIONS

- Recommended for a wide variety of industrial, mobile, marine hydraulics and fluid power transmission systems, especially those that calls for a zinc-free hydraulic oil

TYPICAL PROPERTIES

ISO VG	32	46	68	100
Density, kg/litre @ 15°C	0.862	0.869	0.876	0.890
Color ASTM	0.5	0.5	1.0	1.0
Kinematic Viscosity, mm ² /s @ 40°C	30.2	45.7	67.2	98.2
Kinematic Viscosity, mm ² /s @ 100°C	5.2	6.7	8.6	11.1
Viscosity Index	101	99	98	98
Pour Point, °C	-27	-21	-18	-15
Flash Point COC, °C	222	226	230	236
FZG (ASTM D5182, load stage)	11	11	12	12
Rust Prevention	Pass	Pass	Pass	Pass
Copper Corrosion	1b	1b	1b	1b
Emulsion Characteristics (time to 40-40-0) minutes	5	10	10	10

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