



HYDRAX ZFR

Zinc Free Hydraulic Oil

Specification and Approvals

DIN 51524 Part 2 –HLP; AFNOR NFE 48-603 HM, ISO 11158 HM; Denison HF-0, HF-1, HF-2
Cincinnati Lamb (formerly Cincinnati Machine); Eaton (Vickers) M-2950-S, I-286-S

Description

MOGAS Hydrax ZFR is zinc-free ash-less hydraulic oils developed to provide excellent performance in hydraulic systems where zinc-free oil is mandatory. They are specially formulated with an advanced ash-less anti-wear technology and selected base oils to minimize environmental contamination in case of accidental spillage.

Features and Benefits

- ◆ Excellent thermo-oxidative stability to control sludge and varnish formation, hence improve oil life.
- ◆ Exceptional anti-wear properties leading to longer pump and component life hence reduced costs.
- ◆ Superior demulsibility to assist faster water separation from oil, hence resist formation of emulsions.
- ◆ Special rust and corrosion inhibitors to protect multi-metallurgy components even in the presence of moisture.
- ◆ Rapid air release property minimizes pump cavitation, hence trouble free operation.
- ◆ Compatible with multiple-metals and sealing materials commonly used in hydraulic systems.

Applications

For hydraulic systems operating under moderate to severe conditions in mobile and industrial service, even in environmentally sensitive applications.

Also for use in older types of hydraulic pumps containing silver or silver-plated components.

Typical Properties

Test Parameters	Test Method	Hydrax ZFR 32	Hydrax ZFR 46	Hydrax ZFR 68
Grade ISO VG		32	46	68
Viscosity @ 40°C mm ² /s	ASTM D 445	31.2	45.9	68.3
Viscosity @ 100°C mm ² /s	ASTM D 445	5.4	6.7	8.7
Viscosity Index	ASTM D 2270	100 min	100 min	99 min
Rust Test	ASTM D 665A/B	Pass	Pass	Pass
Emulsion Test 30min Max, At 54°C	ASTM D 1401	Pass	Pass	Pass
Foam Test After 10 min	ASTM D 892	Nil	Nil	Nil
FZG, Fail Load Stage, Min	DIN 51354 Part II	II	II	II
Pour Point °C	ASTM D 97	-24	-24	-24
Flash point (COC) °C	ASTM D 92	202 min	210 min	218 min
Density @ 15°C kg/l	ASTM D 4052	0.870	0.874	0.881

The typical characteristics mentioned represent mean values

Health and Safety

This product used as per our recommendation for the intended application is not expected to produce any particular risk. A safety data sheet of it is available upon request from our sales contact office or on our website. In case of used oil disposal, please respect the Regulations to protect the environment