



PRODUCT & TECHNICAL DATA

PRO ZF HYDRAULIC FLUID RANGE

ZINC FREE HYDRAULIC OIL

DESCRIPTION

Pro ZF Hydraulic Fluids are superior quality zinc free hydraulic oils developed to provide exceptional operating performance for the life of the oil in service. They conform to the international ISO classification type oils, which are inhibited against rust and oxidation and contain anti-wear additives. These oils are made from virgin based, solvent refined (Group II), high viscosity index base oils, incorporating cutting edge additives which provide the desired quality performance required by major original engine and equipment builders.

APPLICATIONS

Pro ZF Hydraulic Fluid are recommended for use in hydraulic systems with gear, vane, radial piston and axial piston pumps in which lubricants of high oxidation stability and excellent anti-wear performance is required. They can be used in such applications as industrial hydraulic systems, hydraulics of mobile and construction equipment, plastic injection moulding machines and industrial circulating systems. It may also be used to lubricate spur and bevel gears operating under mild conditions, plain and rolling element bearings, industrial torque convertors and machine tools.

Pro ZF Hydraulic Fluids are mainly used on equipment with silver plated parts as there are no zinc to create a reaction with the silver.

PERFORMANCE LEVELS

- Denison HF-O, HF-1 and HF-2
- Cincinnati Machine P-68, P-70 & P-69
- Eaton Brochure 694 for 35VQ25A (Formally M-2950-S & 1-286-S)
- DIN 51524 Part 2 (HLP) & Part 3 (HVLP)
- GM Ls2
- ISO 11158 Categories HM & HV
- ASTM D 6158 Type HM & HV
- Afnor NF 46-603 Hm & HV

FEATURES AND ADVANTAGES

- Group II base oils.
- Longer equipment life: selective anti-wear package reduces wear by providing “thin film” conditions.
- Extended oil service life: outstanding thermal and oxidation stability.
- Trouble-free operation: good anti-foam and air release properties, prevents formation of gummy deposits, good protection against rust and corrosion.
- 10 Micron (10um) absolute cleanliness (<1000 ppm (part per million), which will extend filter life of machinery.

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PHYSICAL CHARACTERISTICS

Appearance	Bright, Clear	Bright, Clear	Bright, Clear	Bright, Clear	Bright, Clear
ISO	32	46	68	100	150
Viscosity @ 40 °cSt	32.5	47.1	68.9	100.5	150.9
Viscosity @ 100 ° cSt	5.47	7.01	8.98	11.16	11.6
Viscosity Index	107	108	110	112	112
Pour Point, °C	-33	-30	-30	-15	-12
Flash Point, °C	205	210	215	218	219
ISO NAS Partical Count cleanliness	19/17/12	19/17/12	19/17/12	19/17/12	19/17/12

GENERAL ADVICE

Further information on all Pro Oil SA lubricants is available from any Pro Oil SA office or from:
www.prooil.co.za

These characteristics are typical of current production.
Whilst future production will conform to Pro Oil SA's specification, variations in these characteristics may occur.

Health and Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet, which can be obtained from your Pro Oil SA representative.

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