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Website: www.viscol.co.za**TDS 061****SUBJECT: OIL SPECIFICATIONS****ENVIRONMENTAL & QUALITY MANUAL**
(in accordance with ISO 9001 & 14001)

VISCOL ISO 10, 32, 46, 68, 100 HYDRAULIC OIL

Description and Characteristics

Anti-wear hydraulic fluids for heavy industrial hydraulic systems.

These oils provide outstanding pump and component life, system cleanliness, oxidation stability, demulsibility, as well as protection against rust and corrosion.

They have a low Pour Point, high resistance to foaming and air entrapment, pass 12 stages of the F.Z.G. Spur Gear Test, show minimum wear in Vickers V - 104C pump tests (IP, DIN and ASTM methods), even when contaminated with water, and perform equally well in bigger pumps. Viscol oils are easily filterable and the anti-wear additive used is stabilised which explains their excellent multi-metal compatibility.

Physical Characteristics

ISO GRADE	10	32	46	68	100
Viscosity @ 40°C	9.0	30	46	68	100
Viscosity @ 100°C	2.2	5.47	6.88	8.77	11.14
Viscosity Index	37	106	104	101	96
Pour Point °C	-57	-30	-30	-30	-30
Flashpoint °C (PENSKY – MARTENS Closed cup)	146	209	218	223	234

Benefits

- ◆ Fuller performance from high-pressure, high-output systems: higher productivity.
- ◆ Increased service life of pumps and components reduced maintenance and repair costs and fewer system breakdowns.
- ◆ Long hydraulic fluid life as result of high oxidation stability, reduced fluid and labour costs, less scheduled downtime.
- ◆ Cleaner servo valves and other critical components due to excellent resistance to oil degradation, less maintenance and fewer malfunctions.
- ◆ Balanced formulation for the best performance.
- ◆ Wide range of applications in industrial and automotive equipment.

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- ◆
- ◆ Full multi-metal compatibility with the exception of silver and silver-plated components.
- ◆ Excellent filterability and wear protection.

Application

Hydraulic systems, pumps and motors of all designs operating under normal as well as the most severe conditions.

The choice of temperatures; heavier grades are used at higher temperatures.

Viscol oils can be used in many non-hydraulic applications. The variety of possible applications thus include industrial hydraulic systems, bearings, gears, airline lubricators, machine tools, contractor and farm equipment hydraulic, and hydrostatic systems, airport ground-support equipment and truck hydraulics.

These oils should not be used in Lucas PM500 and PM1000 pumps, which have silver plated components.

Viscol ISO 68 is particularly suited for use in SUNSTRAND transmissions and POCLAIN hydraulic systems.

Specifications (Meets or exceeds)

Viscol hydraulic oils meet and exceed the following international specifications:

AFNOR NF 48-603 (HM, HV)
 Eaton Vickers M-2950-S (35VQ25) and I-286-S
 Denison HF-0, HF-2
 U.S. Steel Reg. No. 126, 127, 136, 175
 DIN 51524 Parts 2 and 3 (HLP & HVLP)
 Ford M6C-32
 Lee-Norse 100-1
 SABS 1218
 Cincinnati Machine P-68, 70, 69

Experienced personnel from our Technical Division are available for discussion on all aspects. Recommendations are given in good faith but without warranty. It is the user's responsibility to determine the suitability for his/her own use.

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