



Document Number:

**TDS 061**

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**SUBJECT: OIL SPECIFICATIONS**

**ENVIRONMENTAL & QUALITY MANUAL**  
*(in accordance with ISO 9001 & 14001)*

## VISCOL ZINC FREE HVI HYDRAULIC, STD HYDRAULIC & CIRCULATION OILS

### Description & Characteristics:

These hydraulic oils are based on the same high quality mineral oil used in the Viscol Hydraulic Oil range with the exception of the additive pack being zinc free. The additives they contain can affect the filterability of oils. Many conventional oils are formulated with zinc based additives which can become instable in the presence of small traces of water and therefore cause filter blockage. Viscol zinc free HVI Hydraulic Oils incorporate a Viscosity Index Improver to achieve viscosity indexes in excess of 150. This enables them to flow freely at sub-zero temperatures whilst at elevated temperatures their viscosity is sufficient to maintain optimum operating conditions.

VISCOL HVI HYDRAULIC	32	46	68	100
Viscosity @ 40°C cSt	30	44	65	95
Viscosity @ 100°C cSt	6,4	8,2	11,0	15,1
Viscosity Index	156	160	152	140
Pour Point °C	-40	-35	-35	-30

**Zinc free hydraulic** universal fluids are recommended for heavy industrial hydraulic systems. These oils provide outstanding pump and component life, system cleanliness, oxidation stability, demulsibility, excellent filterability as well as protection against rust and corrosion.

They have a low Pour Point, high resistance to foaming and air entrainment, and meet or exceed DIN5 1524 part 2 & 3 (HLP,HVLP) and DIN51515 part 2.

Viscol oils are easily filterable and the anti-wear additive used is stabilised which explains their excellent multi-metal compatibility.

Page: 1/2	Date: 15/12/2011	Supercedes: New
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**Benefits:**

1. Fuller performance from high-pressure, high-output systems: higher productivity.
2. Increased service life of pumps and components; reduced maintenance and repair costs, fewer system breakdowns.
3. Long hydraulic fluid life as result of high oxidation stability; reduced fluid and labour costs, less scheduled downtime.
4. Cleaner servo valves and other critical components due to excellent resistance to oil degradation; less maintenance and fewer malfunctions.
5. Balanced formulation for the best performance.
6. Wide range of applications in industrial and automotive equipment.
7. Full multi-metal compatibility with the exception of silver and silver plated components.
8. Excellent filterability and wear protection.

**Application:**

Suitable for hydraulic systems, pumps and motors of all designs which operate under normal as well as the most severe conditions.

Under normal circumstances, Viscol ISO 32 and ISO 46 are used in hydraulics where the pressure does not exceed 7 to 10 MPa, and Viscol ISO 68 and ISO 100 from 7 MPa upwards.

**Performance Levels:**

Viscol hydraulic oils meet and exceed the following international specifications:

U.S. Steel Reg. No. 120  
DIN 51524 part 2 & 3  
DIN 51515 part 2  
SABS 1218  
Mil – L-17672 D

**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 users responsibility to determine the suitability for his own use.**

Page: 2/2	Date: 15/12/2011	Supercedes: New	
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