



HYDRAULIC OIL 68 ISO VG

High-performance Hydraulic Oil Made From Highquality Raffinates Because of The high thermal Stability of The Base oils The Aging Process is Significantly Reduced Even at Elevated Temperatures This Decisively Helps to Reduce the Formation of Sludge improve Cleanliness And promote The Reliability of the Hydraulic Systems Excellent Oxidation Resistance Permits Extended Oil Change intervals The Outstanding Wear-protection Technology is Effective in Both Low and high Load Conditions Maintains Good Corrosion Protection Behavior Even if Water is Present The Hydraulic Components are Thus Optimally Protected in All Operating Conditions.

SPECIFICATIONS AND MEETS:

SAE MS 1004 HM AND ASTM D6158 HM, DENISON HF- 0 HF-1, HF-2

DIN 51524 PART II, CINCINNATI MACHINE

P-68, P-69 AND P-70, ISO 11158 HM

Packaging: 1 Litre / 4 Litres / 5 Litres / 25 Litres / 208 Litres

PROPERTY	VALUE	TEST METHOD
Appearance	Clear liquid	Visual
Density @ 15°C	0,885 g/cm ³	DIN 51757
Viscosity @ 40°C	68 mm ² /s	ASTM D 7042-04
Viscosity @ 100°C	8,6 mm ² /s	ASTM D 7042-04
Viscosity Index	97	DIN ISO 2909
Pour Point	-27 °C	DIN ISO 3016
Flash Point (COC)	240 °C	DIN ISO 2592

APPLICATIONS

- The Specifications and instructions From The Unit or Vehicle Manufacturer Must Be Followed.
- Optimum Effectiveness is Only Possible When The Product is Used Unmixed.

PROPERTY	VALUE	TEST METHOD
Total Base Number (TBN)	1	ASTM D2896
Total Acid Number (TAN)	≤1.0	ASTM D664
Sulfated Ash	<0.1 wt	ASTM D874
Boron Content	55 ppm	ICP
Molybdenum Content	150ppm	ICP
Zinc Content	400 ppm	ICP
Phosphorus Content	250 ppm	ICP
Calcium Content	2500 ppm	ICP
Magnesium Content	200 ppm	ICP
Oxidation Stability	Very high	ASTM D943
Nitration Level	Very low	FTIR

BENEFITS

- High Protection Against Wear Ensuring Maximum Equipment Life.
- Very Good Oxidation Stability Ensuring a Long Service Life of The uid.
- Enhanced Frictional Properties That Aids Fuel Economy.
- Delivers Fast Protection For Reduced Engine Wear and Deposits Even in the Most Extreme Driving Conditions.
- Provides Exceptional Cleaning Power For Dirty Engines.

ELEMENT ANALYSIS	PASS/FAIL	ASTM D5185
Water Content	<0.05 ppm	ASTM D6304
Dispersant Level	Optimized for LSP	IR Analysis
SEQUENCE I (24°C):		
Tendency	0-50 ml	ASTM D892
Stability	0-10 ml	ASTM D892