

AMALIE

Better than it has to be®
Since 1903



ALL-CLIMATE MULTI-VIS

ISO 46

HYDRAULIC OIL

BENEFITS:

- » Shear Stable
- » Oxidation Resistance Even in the Presence of Contaminants ASTM D943 TOST >5000 hr.
- » High Resistance to Rust and Corrosion
- » Excellent Foam Suppression
- » Rapid Water Separation



MADE IN U.S.A.



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ALL-CLIMATE MULTI-VIS HYDRAULIC OIL

AMALIE All-Climate Multi-Vis Hydraulic Oil 46 is formulated using high viscosity index base stocks, a shear stable viscosity modifier and chemical components to control wear, oxidation, sludge, corrosion, foaming, and to promote water separation. It is designed for applications where a wide range of temperature operation is needed as well as wear protection, rust protection, and anti-oxidant performance. It provides robust pump and filtration performance in excess of 5,000 hours, even in the presence of incidental water contamination. **AMALIE All-Climate Multi-Vis Hydraulic Oil 46** provides protection to hydraulic systems employing vane, gear and other types of pumps that require anti-wear (boundary-type) protection.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

ISO Grade.....	46
Specific Gravity.....	0.862
Kinematic Viscosity @ 100°C, cSt.....	7.9
Kinematic Viscosity @ 40°C, cSt.....	46.0
Viscosity Index.....	145
Pour Point, °C.....	-45
Oxidation Life TOST, hr.....	>5000

Typical values are listed. Variations not affecting the performance of this fluid may occur during production; however, these variations will not fall outside of set specification parameters.

Additional Information

Please use proper handling and care that you would use with any lubricating oil.

Please consult AMALIE Technical Services or your local representative for a full listing of applications.

Technical Services: • (800) 368-1264 • techservices@amalie.com

ALL-CLIMATE MULTI-VIS HYDRAULIC OIL

VISCOSITY	PACK SIZE	PART #
ISO 46	55 Gallon Drum	160-65933-05

The data presented herein are believed to be accurate; however, Amalie Oil Company shall not be liable for its content and makes no warranty with respect thereto.

Health and Safety

Safety Data Sheets (SDS) are available from your sales representative or at AMALIE.com.

APPLICATIONS

AMALIE All-Climate Multi-Vis Hydraulic Oil 46 is formulated to meet or exceed the following National and OEM specification requirements:

- ASTM D6158 HL, HM, HV
- Bosch Rexroth RDE-90235, 90220
- Chinese Standard GB 11118.1 L-HL, L-HM
- Danieli 0.000.001 Type 10 & 11
- DIN 51524 PART 1, 2, 3
- Eaton 03-401-2010
- Eaton E-FDGN-TB002-E
- Fives Cincinnati P-68, P-69 & P-70
- GM LS-2 Antiwear Hydraulic Oil
- ISO 11158 HL, HM, HV
- JCMAS HK P041
- Parker Denison HF-1, HF-2, HF-0
- SAE MS1004
- SWEDISH STANDARD SS 155434:2015
- U.S. Steel 126
- Vickers MS-2950, I-2860, 35VQ25
- ZF TE-ML 07H
- ZF TE-ML 21M

Some specifications are ISO Grade specific. Please reference your OEM manual to select the correct ISO Grade.