Mobil

Univis™ N Series

Mobil Industrial , New Caledonia

Hydraulic Oil

Product Description

Univis™ N Series oils are premium high performance anti-wear hydraulic oils designed to satisfy a wide range of hydraulic equipment requirements. The products exhibit high viscosity indexes contributing to their excellent low and high temperature properties making them an excellent choice for equipment that is subjected to a wide range of start-up and operating temperatures. Univis N Series oils are formulated with good shear stability allowing their use in high-pressure high-temperature operating environments for extended periods of time. They provide long oil/filter life and optimum equipment protection reducing both maintenance costs and product disposal costs. Univis N Series oils are formulated with select high-quality base oils and a carefully selected additive system that provide very good anti-wear properties, rust and corrosion protection, good demulsibility, oxidation resistance, good anti-foam and fast air release properties. They are designed to work with systems operating under moderate conditions where high levels of anti-wear protection are needed.

Features and Benefits

The use of the Univis N Series hydraulic oils can result in less wear and corrosion. This results in longer running periods and lower maintenance costs. Their excellent oxidation and thermal stability safely allow extended life capability while controlling sludge and deposit formation. Univis N has very good flow characteristics at low temperatures and good protection at elevated temperatures.

- High viscosity index and good shear stability maintain excellent viscosity characteristics for long periods of time
- Low pour points sustains good fluidity conditions at low temperatures
- High performance and smooth hydraulic operations derived from fast air release, very good foam control and good water separability
- Exceptional corrosion protection reduces the negative effects of moisture on system components
- Effective oxidation and thermal stability characteristics reduce deposits and improve valve performance

Applications

- Univis N can be used in a wide variety of industrial, mobile and marine applications
- Systems where low start-up and high operating temperatures are typical
- Hydraulic systems requiring anti-wear oils
- Systems containing gears and bearings where mild anti-wear characteristics are desirable
- Systems requiring a high degree of load-carrying capability and anti-wear protection
- Applications where moisture is present and good corrosion protection is an asset
- Machines employing a wide range of components using various metallurgy in their designs

Specifications and Approvals

This product has the following approvals:	22	32	46	68
DENISON HF-0		X	X	X
DENISON HF-1		X	X	X
DENISON HF-2		X	X	X

This product is recommended for use in applications requiring:	22	32	46	68

This product is recommended for use in applications requiring:	22	32	46	68
EATON I-286-S		X	X	X
EATON M-2950-S		X	X	X

This product meets or exceeds the requirements of:	22	32	46	68
DIN 51524-3:2017-06	X	X	X	X
ISO L-HV (ISO 11158:2023)	X	X	X	X

Properties and Specifications

Property	22	32	46	68
Grade	ISO VG 22	ISO VG 32	ISO VG 46	ISO VG 68
Brookfield Viscosity @ -20 C, mPa.s, ASTM D2983		1740	3240	
Brookfield Viscosity @ -40 C, mPa.s, ASTM D2983	5770			
Copper Strip Corrosion, 3 h, 100 C, Rating, ASTM D130	1B	1A	1A	1A
Density @ 15 C, kg/l, ASTM D1298		0.876	0.875	0.879
Density @ 15 C, kg/l, ASTM D4052	0.858			
Emulsion, Time to 3 mL Emulsion, 54 C, min, ASTM D1401	10	5	10	10
Flash Point, °C, ASTM D92	185			
Flash Point, Cleveland Open Cup, °C, ASTM D92		208	216	222
Kinematic Viscosity @ 100 C, mm2/s, ASTM D445		6.39	8.19	11
Kinematic Viscosity @ 40 C, mm2/s, ASTM D445	21	32	46	68
Pour Point, °C, ASTM D97	-60	-48	-48	-42
Rust Characteristics, Procedure B, ASTM D665	PASS	PASS	PASS	PASS
Viscosity Index, ASTM D2270	156	151	152	151

Health and Safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

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