

Technical Data sheet

ILS HYTROL AWHM 68

High viscosity index anti-wear hydraulic oils

Description

ILS HYTROL AWHM 68 is a shear stable high viscosity index lubricants are based on the latest stabilised zinc additive technology.

Typical Applications

ILS HYTROL AWHM 68 contains a shear stable additive system which helps maintain the viscosity characteristics of the product over a wide temperature range even during prolonged use and imparts a very low pour point which enables the product to be used in very cold environments. It exhibits excellent corrosion and wear protection as well as outstanding thermal and oxidative stability. In addition, **ILS HYTROL AWHM 68** has excellent hydrolytic stability and separates rapidly from water contamination upon standing. Applications include:

- Outdoor equipment which are likely to operate in wide temperature ranges, such as machinery subjected to cold start up conditions and high temperature continuous running. Examples include offhighway and marine applications.
- Indoor manufacturing equipment that incorporates control systems requiring minimal viscosity change with temperature. Examples include precision machine tools.
- The ILS HYTROL AWHM 68 is fully compatible with elastomer materials commonly used for static and dynamic seals, such as nitrile, silicone and fluorinated (e.g. Viton) polymers.

ILS HYTROL AWHM 68 is classified as follows:

DIN 51502 classification – HVLP ISO 6743/4 - Hydraulic Oils Type HV

ILS HYTROL AWHM 68 meets the requirements (for appropriate viscosity grade) of:

DIN 51524 Part 3 Cincinnati Lamb (Milacron) P 68-69-70 Denison (Parker Hannafin) HF-0 US Steel 126 & 127

Eaton (formerly Vickers) I-286-S & M-2950-S Bosch Rexroth RE07075/RE90220

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Advantages

ILS HYTROL AW 68 has the following advantages when compared to conventional hydraulic oils:

- High viscosity index and low pour point enables the product to be used over a wide temperature range, with good shear stability which means no excessive loss in viscosity due to mechanical shearing..
- Excellent anti-wear performance provides extended wear protection for hydraulic pumps. Reduced down time due to unscheduled maintenance and savings from replacement part costs.
- Excellent water separation and hydrolytic stability means reduced down time through prolonged lubricant life and increased equipment reliability.
- Good filterability gives a cleaner system with less frequent filter changes.

Typical Properties

Name	Method	Units	AWHM 68
ISO Viscosity Grade	-	-	68
Density @ 15°C	ISO 12185 / ASTM D4052	kg/m³	.88
Kinematic Viscosity @ 40°C	ISO 3104 / ASTM D445	mm²/s	60
Kinematic Viscosity @ 100°C	ISO 3104 / ASTM D445	mm²/s	10.4
Viscosity Index	ISO 2909 / ASTM D2270	-	> 140
Pour Point	ISO 3016 / ASTM D97	°C	-36
Foam Sequence I - tendency / stability	ISO 6247 / ASTM D892	ml/ml	20/0
Flash Point - closed cup method	ISO 2719 / ASTM D93	°C	>190
Water Separation @ 54°C (40/37/3)	ISO 6614 / ASTM D1401	min	15
Water Separation @ 82°C (40/37/3)	ISO 6614 / ASTM D1401	min	-
Air Release @ 50°C	ISO 9120 / ASTM D3427	min	8
FZG fail stage (A8 3/90)	ISO 14635 / DIN 51354	-	12
Rust test - distilled water (24 hrs.)	ISO 7120 / ASTM D665A	-	Pass
Rust test – synthetic seawater (24 hrs.)	ISO 7120 / ASTM D665B	-	Pass

Note: Data is typical and does not constitute a specification

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