



Hyspin AWS 150

Anti-wear hydraulic oil

Description

Hyspin AWS 150 hydraulic oil is based upon highly refined mineral oil enhanced with a stabilised zinc additive system.

Application

Hyspin AWS 150 has been specially formulated to provide good anti-wear and thermal stability performance using the very latest additive technology. The careful blend of additives with a high quality base stock ensures that Hyspin AWS 150 has excellent hydrolytic and oxidative stability while exhibiting a minimal tendency to produce sludge and deposits. In addition, Hyspin AWS 150 provides corrosion protection to ferrous and yellow metal components found within a hydraulic system. This product is designed for use in industrial hydraulic systems which require anti-wear protection. It is also suitable for other duties in which lubricants of high oxidation stability and lubrication performance are required, such as lightly loaded gears, variable speed units and bearings.

Hyspin AWS 150 is fully compatible with elastomer materials commonly used for static and dynamic seals, such as nitrile, silicone and fluorinated (e.g. Viton) polymers.

Hyspin AWS 150 is classified as follows:

DIN 51502 classification - HLP

ISO 6743/4 - Hydraulic Oils Type HM

Hyspin AWS grades meets the requirements (for appropriate viscosity grade) of:

DIN 51524 Part 2

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 RE90220

Advantages

- Good thermal and oxidative stability leads to longer operating life, reduction in lubricant costs and minimises deposit formation giving a cleaner system.
- Excellent anti-wear performance gives wear protection and reduces downtime from unscheduled maintenance.
- Good filterability characteristics (including in the presence of water) enables cost savings to be made from increased filter life and reduced maintenance.
- Excellent water separation and hydrolytic stability means reduced down time through prolonged lubricant life and increased equipment reliability.

Typical Characteristics

Name	Method	Units	Hyspin AWS 150
ISO			150
Density @ 15°C	ASTM D4052	g/ml	0.890
Viscosity, Kinematic @ 40°C	ASTM D445	mm²/s	150
Viscosity, Kinematic @ 100°C	ASTM D445	mm²/s	14.59
Viscosity Index	ASTM D2270	-	>95
Pour Point	ASTM D97	°C	-18
Flash Point, COC	ASTM D92	°C	232
Flash Point, PMCC	ASTM D93	°C	220
Foam Sequence I, Tendency	ASTM D892	ml	10
Water Separability @ 82°C	ASTM D1401	mins	20
Air Release Value	ASTM D3427	mins	18
FZG Gear Test (A8.3/90)	DIN 51354	FLS	12
Rust Test (24 hrs Distilled Water)	ASTM D665A	-	Pass
Rust Test (24 hrs Synthetic Sea Water)	ASTM 665B	-	Pass

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

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