



Product Data Sheet

Hydraulic Oil 68

Anti-wear hydraulic oil

Description

The BP™ Hydraulic Oil range are based upon mineral oil enhanced with a stabilised zinc additive system.

Application

BP Hydraulic is primarily for use in hydraulic equipment, but is suitable for other duties in which lubricants with good oxidation stability and lubrication performance are required. The quality of its base oils and additives permits the application of the BP Hydraulic range in lightly loaded gears and for use as circulating oil in applications where a rust and oxidation inhibited oil is required.

The BP Hydraulic oils meet the specification requirements of the Vickers vane-pump test, DIN 51524 Part 2 and is classified as DIN 51502 classification – HLP & ISO 6743/4 – Hydraulic Oils Type HM.

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

Advantages

- Good anti-wear performance – prevents wear of internal components reducing downtime.
- Resistant to oxidation – extends service life.
- Good water separation – reduces downtime and prolongs lubricant life.

Typical Characteristics

Name	Method	Units	Hydraulic Oil 46	Hydraulic Oil 68
ISO Viscosity Grade	-	-	46	68
Density @ 15C	ISO 12185 / ASTM D4052	g/ml	0.88	0.88
Kinematic Viscosity @ 40°C	ISO 3104 / ASTM D445	mm ² /s	46	68
Kinematic Viscosity @ 100°C	ISO 3104 / ASTM D445	mm ² /s	6.8	8.77
Viscosity Index	ISO 2909 / ASTM D2270	-	>95	>95
Pour Point	ISO 3016 / ASTM D97	°C	-27	-27
Flash Point - open cup method	ISO 2592 / ASTM D92	°C	229	229
Foam Sequence I - tendency / stability	ISO 6247 / ASTM D892	ml/ml	10/0	10/0

Name	Method	Units	Hydraulic Oil 46	Hydraulic Oil 68
Water Separation @ 54°C (40/37/3)	ISO 6614 / ASTM D1401	minutes	15	15
Air Release @ 50°C	ISO 9120 / ASTM D3427	minutes	8	8
Rust test - synthetic seawater (24 hrs)	ISO 7120 / ASTM D665B	Rating	Pass	Pass
FZG Gear Scuffing test - A/ 8.3/90	ISO 14635-1	Failure Load Stage	12	12

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