



## Product Data Sheet

### BP Bartran Range

Non zinc antiwear hydraulic oil

#### Description

The BP Bartran hydraulic oil range of premium lubricants are based on a carefully selected ashless additive system designed to meet and exceed the most exacting performance standards.

#### Application

The Bartran range is particularly suitable for hydraulic systems using vane and piston pumps where elevated operating temperatures are encountered. They are formulated for use in severely stressed systems in which high levels of antiwear performance and/or ultra fine filtration are required. They have been proven to be resistant to the effects of 'dieseling' in highly stressed systems such as plastic injection moulding and fatigue testing equipment where the application leads to rapid breakdown of more conventional products.

Bartran is suitable for a wide range of other applications requiring high levels of antiwear and superior oxidation performance.

Bartran range is fully compatible with the elastomer materials commonly used for static and dynamic seals, such as nitrile, silicone and fluropolymers.

Bartran is classified as follows:

DIN classification - HLP

ISO 6743/4 - Hydraulic Oils Type HM

Bartran grades meet the requirements of:

DIN 51524 Part 2

Cincinnati Milacron (P 68-69-70)

Denison HF-0 & HF-2

US Steel 126 & 127

Eaton (formally Vickers) I-286-S & M-2950-S

Bosch-Rexroth RE 07 075

#### Advantages

- Superior thermal and oxidative stability provides reliable performance and extended oil life in severe applications. Minimal deposit formation gives a cleaner system and reduced frequency of filter changes
- Superior antiwear performance provides excellent wear protection and long life and reduction in replacement part costs
- Outstanding filterability characteristics in both wet and dry conditions enables cost savings to be made due to increased filter life.
- Excellent water separation and hydrolytic stability means reduced down time through prolonged lubricant life and increased equipment reliability.
- Versatile – can be used for other applications
- Good corrosion protection

## Typical Physical Characteristics

Test	Method	Units	15	32	46	68	100	220
Density @ 15°C	ISO 12185 / ASTM D4052	g/ml	0.87	0.87	0.88	0.88	0.88	0.89
K.V. @ 40°C	ISO 3104 / ASTM D445	mm <sup>2</sup> /s	15	32	46	68	100	220
K.V. @ 100°C	ISO 3104 / ASTM D445	mm <sup>2</sup> /s	3.2	5.26	6.65	8.6	11.1	18.7
Viscosity Index	ISO 2909 / ASTM 2270	-	>60	>95	>95	>95	>95	>95
Pour Point	ISO 3016 / ASTM D97	°C	-27	-27	-24	-21	-18	-21
Flash Point, PMC	ISO 2719 / ASTM D93	°C	>160	>190	>190	>190	>190	>190
Foam Sequence 1	ISO 6247 / ASTM D892	mls/mls	20/0	20/0	20/0	10/0	10/0	10/0
Demulsification @ 54°C	ISO 6614 / ASTM D1401	mins	10	15	15	15	15	15
Air Release @ 50°C	ISO / 9120 / ASTM D3427	mins	4	4	8	8	12	12
FZG (A8.3/90), fail stage	ISO 14635-1 / DIN 51354	-	-	12	12	12	12	12
Rust Test (24 hrs synthetic sea water)	ISO / 7210 / ASTM D665B	-	Pass	Pass	Pass	Pass	Pass	Pass

## Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

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