



Castrol Hyspin VG Range

Hydraulic Oils

Description

The Castrol Hyspin™ VG hydraulic oil range is based upon highly refined mineral oil enhanced with rust and oxidation inhibitors.

Application

Castrol Hyspin VG has been specially formulated to provide protection against rust and oxidation while demonstrating good lubricity. Castrol Hyspin VG is also referred to as a "R & O" (Rust and Oxidation) hydraulic oil. This range is designed for use in hydraulic systems which do not need anti-wear performance but where a degree of rust and oxidation resistance is desirable. It is also suitable for pumps which contain silver-plated components.

The Hyspin VG range is compatible with the most commonly used nitrile, silicone and fluropolymer seal materials.

Hyspin VG is classified as follows:

- DIN 51502 classification - HL
- ISO 6743/4 - Hydraulic Oils Type HL

Industry Specifications and OEM Approvals by grade:

Hyspin VG 32: Cincinnati Machine P-38

Hyspin VG 46: Cincinnati Machine P-55

Hyspin VG 68: Cincinnati Machine P-54

Advantages

Compared to conventional Hydraulic oils of the same class Hyspin VG has the following advantages:-

- Good thermal and oxidative stability. Oxidative stability reduces deposit formation, resulting in a cleaner system. This can extend maintenance intervals and lubricant operating life.
- Good protection of yellow metal and ferrous components helps maintain and protect equipment.
- Excellent water separation and hydrolytic stability.
- Excellent demulsibility that permits water and other contaminants to readily separate from the oil in hydraulic or circulating system reservoirs. catalyzing metals while preventing the formation of sludge and varnish deposits during periods of extended high temperature operation.
- Superior oxidation stability resisting thermal degradation in the presence of entrained air and catalyzing metals while preventing the formation of sludge and varnish deposits during periods of extended high temperature operation.
- Good foam resistance and air release for suppressing foaming without retarding the release of entrained air.
- Outstanding rust and corrosion resistance reducing the catalytic effect of systems metals while protecting systems metals from entrained, condensed moisture

Castrol Paradene R & O provides systems to operate more efficiently reducing operating costs and increasing lubricant and equipment life. Additionally, Castrol Paradene R & O reduces wear and limits formation of deposits leading to less down time and reduced maintenance costs.

Typical Characteristics

Name	Method	Units	22	32	46	68	100	150	220	320	460
ISO Viscosity Grade	-	-	22	32	46	68	100	150	220	320	460
Density @ 15°C / 59°F	ISO 12185 / ASTM D4052	g/ml	0.870	0.870	0.880	0.880	0.880	0.880	0.890	0.890	0.890
Kinematic Viscosity @ 40°C / 104°	ISO 3104 / ASTM D445	mm ² /s	22	32	46	68	100	150	220	321	485
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm ² /s	4.3	5.4	6.8	8.7	11.2	14.7	18.7	24.8	32.5
Viscosity Index	ISO 2909 / ASTM D2270	-	95	95	95	>95	95	95	95	97	97
Pour Point	ISO 3016 / ASTM D97	°C/°F	-30 / -22	-30 / -22	-30 / -22	-24 / -11	-21 / -6	-18 / 0	-15 / 5	-10 / 14	-7 / 20
Flash Point - open cup method	ISO 2592 / ASTM D92	°C/°F	205 / 401	220 / 428	240 / 464	240 / 464	250 / 482	255 / 491	260 / 500	270 / 518	282 / 540
Foam Sequence I - tendency / stability	ISO 6247 / ASTM D892	ml/ml	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0	30/0
Air Release @ 50°C / 122°F	ISO 9120 / ASTM D3427	min	1	2	3	5	8	-	-	-	-
Water Separation @ 54°C / 129°F (40/37/3)	ISO 6614 / ASTM D1401	min	5	10	10	15	20	-	-	-	-
Rust test - distilled water (24 hrs)	ISO 7120 / ASTM D665A	-	Pass	Pass	Pass	Pass	Pass	Pass	Pass	-	-
Rust test - synthetic seawater (24 hrs)	ISO 7120 / ASTM D665B	-	Pass	Pass	Pass	Pass	Pass	Pass	Pass	-	-
Gravity, API	ASTM D-287		33.2	33	32	30.9	30	29	28	27.9	27.2
Specific Gravity, API	ASTM D-1298		0.86	0.9	0.9	0.87	0.9	1	0.89	0.89	0.89
Pounds per Gallon	ASTM D-287	lbs.	7.15	7.2	7.2	7.26	7.3	7	7.39	7.4	7.42
Oxidation Life, Hrs. to TAN 2.0	ASTM D-943			7000+	6000+	6000+	6000+				

Subject to usual manufacturing tolerances.

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BP Lubricants USA Inc., 1500 Valley Road, Wayne, NJ 07470
 Telephone: +1-888-CASTROL Product Information: +1-877-641-1600
www.castrol.com/en_us/b2b/home.html