

Technical Data Sheet

Texol Hydosyn™ HD-S Series

Ultimate performance synthetic hydraulic fluids

Product Description

Texol Hydosyn™ HD-S severe service hydraulic fluid is high quality polyalphaolefin based and formulated with high performance and extremely shear stable additive systems, designed to deliver advanced multi-grade viscosity performance across a very wide range of temperatures, in arduous operating conditions.

This high performance heavy-duty fluid technology provides Premium anti-wear protection and oxidation resistance across a superior operating temperature window maximising system protection under high shear conditions, and at the extremes of ambient and operating temperature. Texol Hydosyn™ HD-S high technology formulation offers significant and highly reliable cross-grading and outstanding durability, ensuring that it remains in-grade over very long service periods, extending system operating life. This advanced hydraulic fluid delivers leading edge zinc-free additive technology, best in class ash-free performance and water separation properties, optimising filtration efficiency and maximising system protection.

Texol Hydosyn™ HD-S world-class anti-wear, shear-stable technologies deliver exceptional protection to high-speed, high-pressure systems operating under severe conditions, preventing surface contact in all system components including vane and gear pumps, and offers excellent protection to axial piston pumps where metal, bronze and silver-plated components are present.

This high performance system protection is enhanced by leading edge rust and corrosion protection Technologies, advanced foam suppression systems, and outstanding rapid air release properties.

The ultimate protection delivered by Texol Hydosyn™ HD-S is further strengthened by a group of advanced formulation additives designed to meet and exceed AFNOR NF E 48-690 and NF E 48-691 dry and wet filtration tests.

Applications and Uses

Recommended for use in all high-performance, heavy duty hydraulic systems, under a wide range of environmental and operating temperatures, including high speed, high-pressure vane and gear pumps, and axial piston pumps. Excellent compatibility with bronze, steel and silver-plated components.

Specifications and approvals

- ASTM D6158 Class HV (ISO 15-150)
- DIN 51524 part 3 HVLP (ISO 15-150)
- ISO 11158 Class HV (ISO 15-150)

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Chemical

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Typical Properties

Property (Unit)	HD-S 15	HD-S 22	HD-S 32	HD-S 46	HD-S 68	HD-S 100	Method
Density at +15 °C	888	859	867	872	879	883	DIN 51757
Viscosity @40°C, cSt	15	22	32	46	68	100	DIN 51550
Viscosity @100°C, cSt	4.04	5.20	6.43	8.56	10.93	13.85	DIN 51550
ISO Viscosity Grade	15	22	32	46	68	100	DIN 51519
Viscosity Index	215	218	221	226	228	230	DIN ISO 2909
Flash Point, °C	220	235	240	245	250	255	DIN ISO 2592
Pour Point, °C	-47	-45	-49	-49	-45	-43	DIN ISO 3016
Four ball weld load, N	1500	1500	1500	1600	1600	1600	DIN 51350-02
Steel corrosion	0	0	0	0	0	0	DIN 51585
Cu corrosion, 3h, 100°C	1B	1B	1B	1B	1B	1B	ASTM D130
Sulphated Ash, %wt	0.02	0.02	0.02	0.02	0.02	0.02	ASTM D874
FZG test (A/8.3/90)				>12			DIN 51354

Notes for Use

- Please observe the viscosity specified by the manufacturer.
- Good compatibility with conventional sealing materials.
- When changing over from mineral oil to Texol Hydrosyn™ HD-S oil filters have to be monitored and – if necessary exchanged or cleaned