



MINING / OFF-HIGHWAY

LUBRICANTS - ENGINEERED TO PERFORM

New developments in off-road equipment are governed by different factors and have allowed for great advancements in the fields of productivity, durability, regulatory compliance and economy of operation, to name a few. Ownership of hardware and operational costs are simplified and reduced by the application of next generation lubricants and greases, designed specifically to increase productivity and operator comfort, reduce emissions and downtime, and to better adapt to the changing needs of globalised industry.

HABOT H-TO-4 SERIES - Off-Highway Transmission Oils:

HABOT's H-TO-4 series is designed for use in off-road applications. This multi-functional fluid is useable throughout the drivetrain and hydraulic components in a wide range of machinery, as well as heavy-duty applications in the mining, construction, quarrying and agricultural

HABOT H-TO-4 Series	Viscosity @ 40°C	Viscosity @ 100°C	Viscosity Index	Pour Point	Flash Point	TBN
H-TO-4 SAE 10W	45,3 cSt	7,1 cSt	115	-33°C	>210°C	0,867
H-TO-4 SAE 30	92,0 cSt	11,3 cSt	108	-30°C	>230°C	0,875
H-TO-4 SAE 50	206 cSt	18,2 cSt	101	-21°C	>250°C	0,892
H-TO-4 SAE 60	287 cSt	23,4 cSt	100	-21°C	>250°C	0,897

This product meets and exceeds most OEM requirements:

API GL-4 / Allison C-4 (off-road) / Allison TES 439 (SAE 30 only) / Caterpillar T0-4 & TO-4M / Komatsu KES 07.868.1 / ZF TE ML 03C (SAE 10W & SAE 30) / ZF TE ML 07D (SAE 30 only) / ZF TE ML 07F (SAE 30 only).

HABOT H-15W40 HP – Heavy-Duty Diesel Engine Oil:

HABOT H-15W40 HP is a high-performance SAE 15W-40 diesel multigrade oil (HDDEO) designed to the unique requirements of the Southern African market. This product is developed for use in both turbocharged and naturally aspirated diesel and petrol engines.

HABOT H-15W40 HP	Viscosity @ 40°C	Viscosity @ 100°C	Viscosity Index	Pour Point	Flash Point	TBN
API CI-4/SL	104 cSt	13,8 cSt	133	-24 °C	>230°C	12 mgKOH/g

This product meets and exceeds most OEM requirements:

MB 229.1 / MB 228.3 / Volvo VDS-3 / MAN 3275-1 / Cummins CES 20076/77/78/ Caterpillar ECF-2, ECF 1a / DEUTZ DQC-III-10.

HABOT H-4000 HP Series – Industrial Hydraulic Oils:

The HABOT H 4000 HP Series is a premium quality, anti-wear hydraulic fluid, designed for use in mobile and high-pressure hydraulic systems. The product delivers outstanding pump and equipment protection, even in severe operating conditions.

HABOT H-4000 HP Series	Viscosity @ 40°C	Viscosity @ 100°C	Viscosity Index	Pour Point	Flash Point	TBN
H-4032 HP	34,1 cSt	5,7 cSt	>100	-36°C	>220°C	0,861
H-4046 HP	46,5 cSt	6,9 cSt	>100	-33°C	>220°C	0,862
H-4068 HP	68,1 cSt	9,1 cSt	>100	-30°C	>230°C	0,865

This product meets and exceeds most OEM requirements:

Denison HF-0, HF-1; HF-2 / Cincinnati Machine P-68, P-70, P-69 Eaton Brochure 694 for 35VQ25A (formerly named M-2950-S & I-286-S) / DIN 51524 Part 2 (HLP) / ISO 11158 Categories HM and HV / ASTM D 6158 Type HM and HV.



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HABOT H-ELC OAT - Extended Drain Coolants:

HABOT's H-ELC OAT Coolant GR is a next-generation OAT that offers extended life. It is a nitrite free, heavy-duty ethylene glycol engine coolant concentrate and ready-mix, that is suitable for both heavy- and light-duty applications, making it ideal for use in mixed fleets.

H-ELC OAT Extended Drain Coolants	Boiling Point	Freezing Point	Flash Point	pH Value	Density
H-ANTIFREEZE PM (Ready-mix)	>108°C	-36°C	>120°C	8,0 - 9,0	1,07 - 1,08
H-ANTIFREEZE CONC (Concentrate)	>108°C	-45°C	>120°C	7,9 - 9,5	1,120 - 1,135

This product meets and exceeds most OEM requirements:

Cummins CES 14603 / MB 325.3, MAN 324 SNF / Caterpillar EC-1 (Sections 2.3 - 4.5 incl.) / Freightliner 48-2280 / John Deere JDM H24.

HABOT HIGH-PERFORMANCE GREASES

H-LX2 195

Lithium Complex	Base Oil Viscosity at 40°C	NLGI Consistency	Dropping Point (°C)	Welding Load (kg)	Temperature Range (°C)
	195	2	245	450	-20°C to 150°C

High resistance to water and excellent resistance to high temperatures and loads.

H-AUREA-2

Lithium	Base Oil Viscosity at 40°C	NLGI Consistency	Dropping Point (°C)	Welding Load (kg)	Temperature Range (°C)
	220	2	195	350	-20°C to 125°C

General purpose EP-2, suitable for bushings, bearings and general mechanisms.

H-BESLUX PLEX H-2/KT

Special Lithium	Base Oil Viscosity at 40°C	NLGI Consistency	Dropping Point (°C)	Welding Load (kg)	Temperature Range (°C)
	460	2	min. 220	600	-20°C to 150°C

Komatsu approved special Lithium grease with polymers and solid lubricants, specially formulated to reduce wear on heavy loaded pins, bushes and bearings.

***PLEASE NOTE:** In addition to the three greases listed above, BMG offers a comprehensive range of greases to meet other specialised applications.



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