



Thuban® GL5 EP Monograde

Proven performance monograde automotive gear oils

Product Data Sheet

Product description

Thuban GL5 EP SAE 90 and SAE 140 are proven performance monograde automotive gear oils, designed for use in automotive hypoid drive axles, steering systems, heavy-duty non-synchronized transmissions and transaxles which require a fluid with API GL-5 or MT-1 performance.

Thuban GL5 EP is formulated with mineral base oils and proven 'clean-gear' EP additives designed to provide clean, deposit-free operation.

Customer benefits

- Viscosity improver-free formulation prevents viscosity drop due to in-service shearing
- Proven EP performance protects components against scuffing, pitting, scoring, spalling and wear
- Mild EP additives prevent corrosion in vulnerable copper alloy components
- Resists rust and corrosion
- Reliable oxidation stability resists oil thickening and keeps gear cases and bearings clean and deposit-free
- Compatible with a wide range of elastomers, preventing seal deterioration and fluid loss
- Good foam suppression

Applications

- Thuban GL5 EP is designed for use in automotive hypoid drive axles, steering systems, heavy-duty non-synchronized transmissions and transaxles which require a fluid with API GL-5 or MT-1 performance

Product highlights:

- 'Clean-gear' EP additives
- Protects against scuffing, pitting, scoring, spalling and wear
- Resists rust and corrosion
- Selected specification standards include:
 - API GL-5
 - US Military
 - ZF
 - ZF Lenksysteme

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Global Lubricants



- The Thuban GL5 EP range may be used in final drive axles that require a GL-4 lubricant. However, the friction characteristics of the Thuban GL5 EP range make them generally unsuitable for use in synchronized manual transmissions and transaxles, and they should not be used in these applications unless a GL-5 fluid is specifically recommended. If a GL-4 lubricant is specified, use Thuban GL4

Approvals and performance specifications

Performance specifications

Viscosity Grade

		SAE 90	SAE 140
• API	GL-5	Meets requirements	Meets requirements
• US Military	MIL-L-2105B	Meets requirements	Meets requirements
• ZF	TE-ML 05A	Meets requirements	-
• ZF	TE-ML 12E	Meets requirements	-
• ZF	TE-ML 16C	Meets requirements ^[2]	-
• ZF	TE-ML 16D	-	Meets requirements ^[2]
• ZF	TE-ML 17B	Meets requirements	-
• ZF	TE-ML 19B	Meets requirements	-
• ZF	TE-ML 21A	Meets requirements	-

Approvals

• ZF	TE-ML 07A	Approved ^{[1] [2]}	-
• ZF Lenksysteme	TE-ML 08	Approved ^[1]	-

^[1] Products meeting the necessary requirements for this specification are approved without listing.

^[2] For outside temperatures above -12°C.



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continued

Typical test data

THUBAN GL5 EP MONOGRADE TEST	TEST METHODS	RESULTS	
Viscosity Grade		90	140
Product Code		510278.11	510279.11
Viscosity, Kinematic, 100 °C, mm²/s	ASTM D445	17.5	26.0
Viscosity, Kinematic, 40 °C, mm²/s	ASTM D445	190	359
Viscosity Index	ASTM D2270	100	96
Pour Point, °C	ASTM D97	-21	-15
Copper Corrosion, 3 hr, 121 °C	ASTM D130	1b	1b

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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