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Product Data Sheet (PDS)



GP SYCROGEN MTF Gear & Differential 85w140 GL-5 Limited Slip

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GP Syncrogen MTF 85w140 GL5 LS



GP Syncrogen 85W140 GL-5 LS is a premium-grade, heavy-duty gear and axle oil specifically engineered for use in high-load applications and vehicles equipped with **Limited Slip (LS) differentials**. Formulated with high-quality base oils and advanced **Extreme Pressure (EP)** and **friction-modifying additives**, this oil delivers superior protection, even under the most severe operating conditions.

Designed to meet the rigorous demands of commercial fleets, off-road machinery, and performance vehicles, Syncrogen 85W140 ensures smooth operation, reduced wear, and long-lasting gear protection.

Key Features:

- **Limited Slip Differential Compatible:** Special LS additives eliminate chatter and ensure smooth, quiet operation in limited slip differentials.
- **Extreme Load Protection:** Meets API GL-5 standards, offering superior performance under shock loading and high torque conditions.
- **Outstanding Thermal Stability:** Resists oxidation and oil breakdown at high temperatures, extending both oil and component life.
- **Superior Film Strength:** Maintains a strong lubricating film to protect against metal-to-metal contact, reducing gear wear and pitting.
- **Excellent Corrosion and Rust Protection:** Guards internal components from rust and corrosion, even in humid or wet environments.

Applications:

- Ideal for heavy-duty trucks, construction equipment, agricultural machinery, and commercial vehicles requiring 85W140 GL-5 gear oil.
- Suitable for hypoid differentials, final drives, and axle assemblies, including those with **limited slip** capabilities.
- Recommended for severe-service conditions, high torque loads, and extended drain intervals (based on OEM guidelines).

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PERFORMANCE STANDARDS:

Syncrogen 85w140 GL5 LS meets and exceeds the requirements of the following specifications:

- API MT-1
- API GL-5 / GL-4
- MIL-L-2105D
- MIL-PRF-2105E
- MACK GO-J
- SAE J2360
- PG-2 Limited Slip
- US Steel 224
- AGMA 9005-D94
- Cincinnati Milacron
- Clean Panel Coker
- S-200 Oxidation Tubes
- Arvin Meritor 0-76-A
- Arvin Meritor 0-76-Q, R
- David Brown S1.53.101(E)
- DIN 51517 PART 3
- Eaton
- GM LS2
- ISO 12925-1 CKC/CKD
- Komatsu KES 07.861
- Mack GO-G, J
- MB 235.0, 235.5, 235.6, 235.8
- PG-2 Limited Slip
- NATO O-226
- U.S. Steel 224
- Voith Turbo 132.00374401/2
- ZF TE-ML-07A, 05C,D, 12C,D, 16E, 16G

TECHNICAL DATA

Sr. No	Characteristics	Test Method	Results
01	Appearance	Visual	Bright & Clear
02	Color	ASTM D1500	L3.5
03	Density @ 15.0°C, g/ml	ASTM D4052	0.902
04	KV@40C	ASTM D445	356.8
05	KV@100C	ASTM D445	27.36
06	Viscosity Index	ASTM D2270	103
07	Brookfield Viscosity @ -12	ASTM D2983	91,000
08	Flash Point, C	ASTM D92	246
09	Pour Point, C	ASTM D97	-15

Health and Safety:

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application, following the recommendations provided in the Material Safety Data Sheet (MSDS). MSDSs are available upon request. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly.

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