



KIREI
CHEMICAL

TECHNICAL DATA SHEET



KATANA HABAKI GL-5 LS 80W-90

Mineral transmission oil



DESCRIPTION

KATANA Habaki GL-5 LS 80W-90—mineral allseason gear oil for use in heavy duty hypoid axles with limited-slip differential (self-locking). Specially designed for heavy loaded transmissions, requiring specific protection against wear and using special additives for friction limitation (Limited Slip).

KATANA Habaki GL-5 LS 80W-90 has outstanding anti-wear and EP (Extreme Pressure) properties, which provide long service life of transmissions operating under high loads.



TECHNICAL ADVANTAGES

15%

Higher oil film strength

35%

Lower transmission wear

25%

Lower noise during shifting

There are no synthetic thickeners in the composition of KATANA Habaki GL-5 LS 80W-90 oil. That is why it is shear stable and does not lose viscosity at elevated temperatures and decreasing of lubricity properties.

KATANA Habaki GL-5 LS oils are produced according to special technology of anti-wear and EP (Extreme Pressure) additives which increase the lubricity properties of base oils. Oil film strength of this technology is on 30-40% higher than the standard technology. This allows to reduce wear in heavy duty transmissions.

KATANA Habaki GL-5 LS 80W-90 provides a smooth shifting without vibration and noise.



SPECIFICATIONS

KATANA Habaki GL-5 LS 80W-90 fully satisfies and is recommended to replace following types of gear oils: API GL-5, MIL L-2105D, ZF TE ML 05C/12C/16E, MAN 342 N-1.



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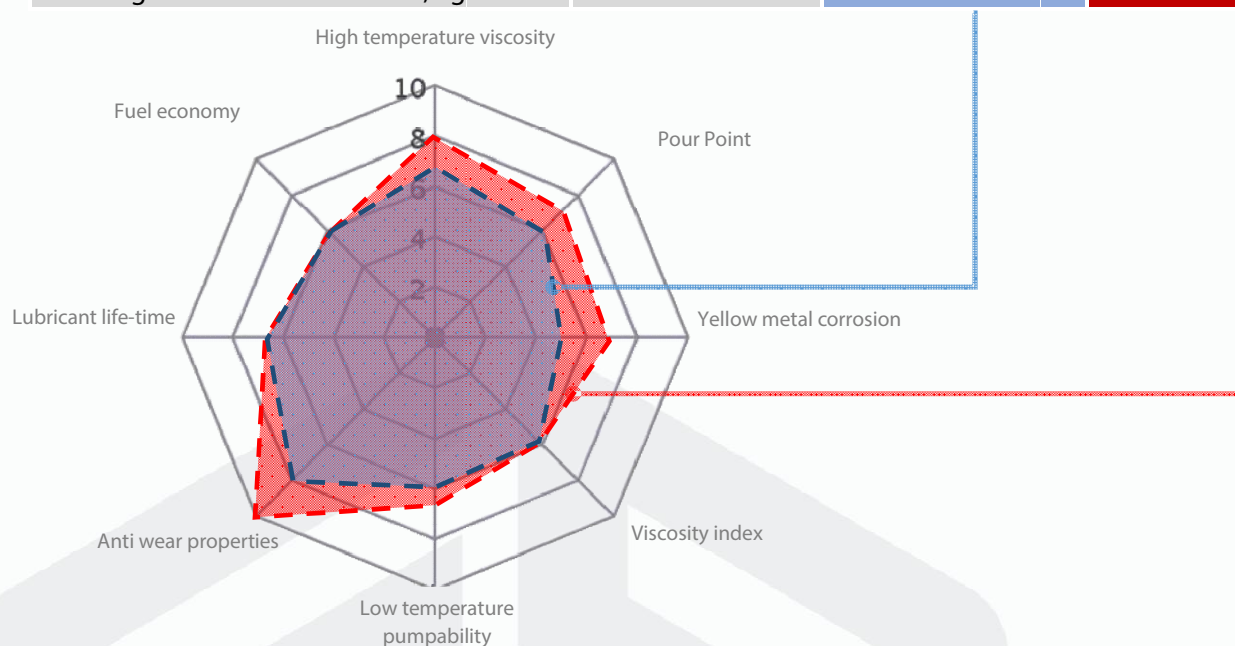
ISO 9001 Quality System Management
ISO 14001 Environmental Management System

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TECHNICAL PARAMETERS

Parameter	Test method	Typical GL-5 LS 80W-90 gear oil	Habaki GL-5 LS 80W-90
Kinematic viscosity at 40°C, cSt	ASTM D445	142.8	141.5
Kinematic viscosity at 100°C, cSt	ASTM D445	14.2	14.8
Viscosity index	ASTM D2270	97	105
Dynamic viscosity at -26°C, cP	ASTM D2983	150 000	125 000
Flash point in open cup, °C	ASTM D92	208	208
Pour point, °C	ASTM D97	-26	-32
	ASTM D130	2b	1b
Welding load in 4-ball machine, kg	ASTM D2596	330	400



Physical and chemical characteristics are typical for this product. These parameters are subject to change without notification, however, full compliance with the product specifications is guaranteed.

Shelf life: 5 years from date of manufacture. Store unopened in a cool, dry, well-ventilated and away from children. Avoid direct sunlight, heat sources and strong oxidizing agents. Material Safety Data Sheet (MSDS) for professional users available on request.

Developed in Osaka, Japan. The quality management system in the production of oils KATANA corresponds to the requirements of ISO 9001. The system of environmental safety in the production of oils KATANA corresponds to the requirements of ISO 14001.