



KIREI
CHEMICAL

TECHNICAL DATA SHEET



KATANA HABAKI GL-5 75W-90

Synthetic transmission oil



DESCRIPTION

KATANA Habaki GL-5 75W-90—synthetic gear oil for use in hypoid, heavy loaded transmissions of buses, tractors, trucks, off-highway equipment and passenger cars operating under a wide range of loads and speeds. It is also used in other units (front and rear differential, drive axle, front hub axle, front axle, front and rear hub reduction, transfer boxes), where a manufacturer recommends to use API GL-5 oils.

KATANA Habaki GL-5 75W-90 has very high anti-wear and EP (Extreme Pressure) properties, which ensure long life of transmissions running under high loads. It can be also used in manual transmissions where the manufacturer recommends using

API GL-5 oils (non synchronized gearbox) that minimizes a variety of stocks and the possibility to make a mistake.



TECHNICAL ADVANTAGES

25%

Wider application
temperature range

35%

Lower transmission wear

5%

Fuel economy

Synthetic base oils which are used in KATANA Habaki GL-5 gear oil have much less pour point than conventional mineral or semisynthetic fluids. Pour point is on 10-15 degrees lower than competitors.

KATANA Habaki GL-5 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 allow to reduce wear in heavy duty transmissions.

KATANA Habaki GL-5 75W-90 synthetic oil has low viscosity which provides less friction loss and contributes to fuel economy



SPECIFICATIONS

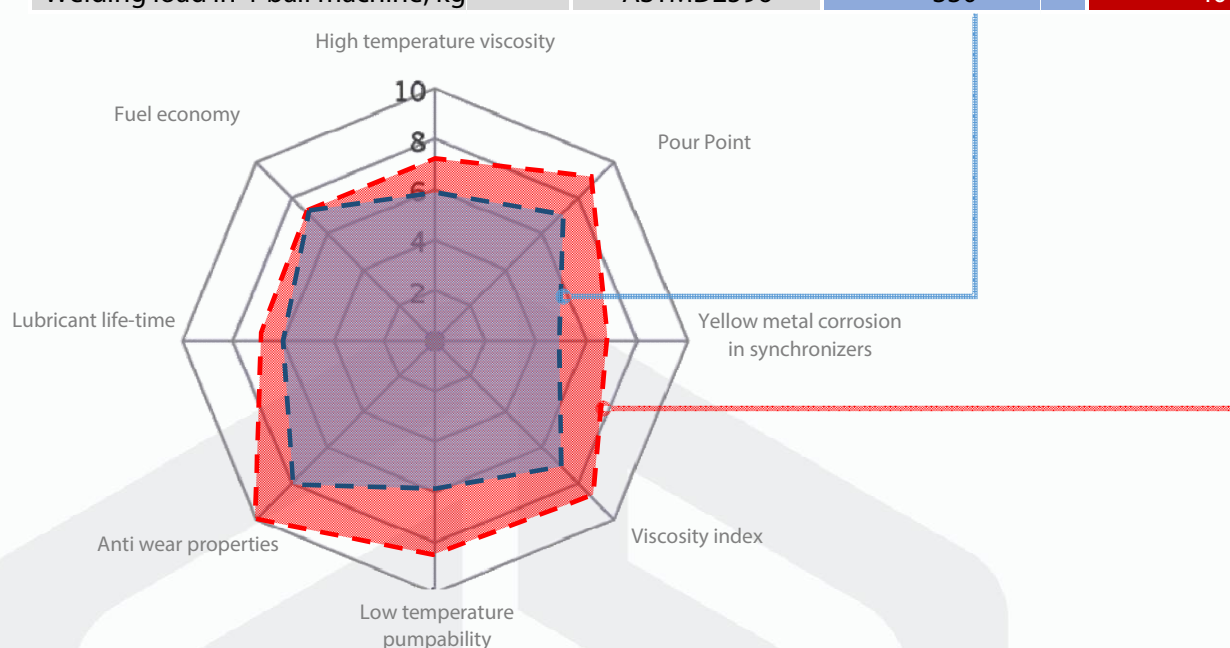
KATANA Habaki GL-5 75W-90 fully satisfies and is recommended to replace following types of gear oils: API GL-5, Volvo 97316, 97310, Voith 3.325-339, ZF TE-ML 07A/16B/16C/16D/17B/19B/21A, MIL MIL-L-2105D, MB 235.0, MAN 342 Type M1, DAF, Renault.





TECHNICAL PARAMETERS

Parameter	Test method	Typical GL-5 75W-90 oil	Habaki GL-5 75W-90
Kinematic viscosity at 40°C, cSt	ASTM D445	98.5	104.7
Kinematic viscosity at 100°C, cSt	ASTM D445	14.7	16.4
Viscosity index	ASTM D2270	156	170
Dynamic viscosity at -40°C, cP	ASTM D2983	150 000	53 000
Flash point in open cup, °C	ASTM D92	175	188
Pour point, °C	ASTM D97	-40	-45
TAN, mg KOH/g	ASTM D664	2	1.55
Copper corrosion	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.