



KIREI
CHEMICAL

TECHNICAL DATA SHEET



KATANA HABAKI GL-4/5 75W-90

Synthetic blend transmission oil



DESCRIPTION

KATANA Habaki GL-4/5 75W-90—synthetic technology gear oil for manual transmissions, drive axles, hypoid gears, transfer cases, and differentials of passenger cars, trucks, buses, loaders, construction equipment and other four-wheel drive vehicles that require the use of API GL-4 or GL-5 oils.

KATANA Habaki GL-4/5 75W-90 has very high anti-wear and EP (Extreme Pressure) properties that ensure long life of gearboxes, differentials and synchronizers running under high loads. It has good anti-foam properties to prevent the excessive formation of air bubbles which can destroy oil film and cause abrasion wear.



TECHNICAL ADVANTAGES

15%

Wider application temperature range

35%

Lower transmission wear

15%

Lower the range of lubricants in warehouse

Synthetic base oils which are used in KATANA Habaki GL-4/5 gear oil have much less pour point than conventional mineral or semisynthetic fluids. Pour point is on 5-10 degrees lower than competitors.

KATANA Habaki GL-4/5 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 allows to reduce wear in heavy duty transmissions.

KATANA Habaki GL-4/5 75W-90 gear oil refers to the TDL (Total Drive Line) category and is suitable for all types of transmissions components: manual transmission, hypoid gears, drive axles, etc. This reduces the range of lubricants used by a customer.



SPECIFICATIONS

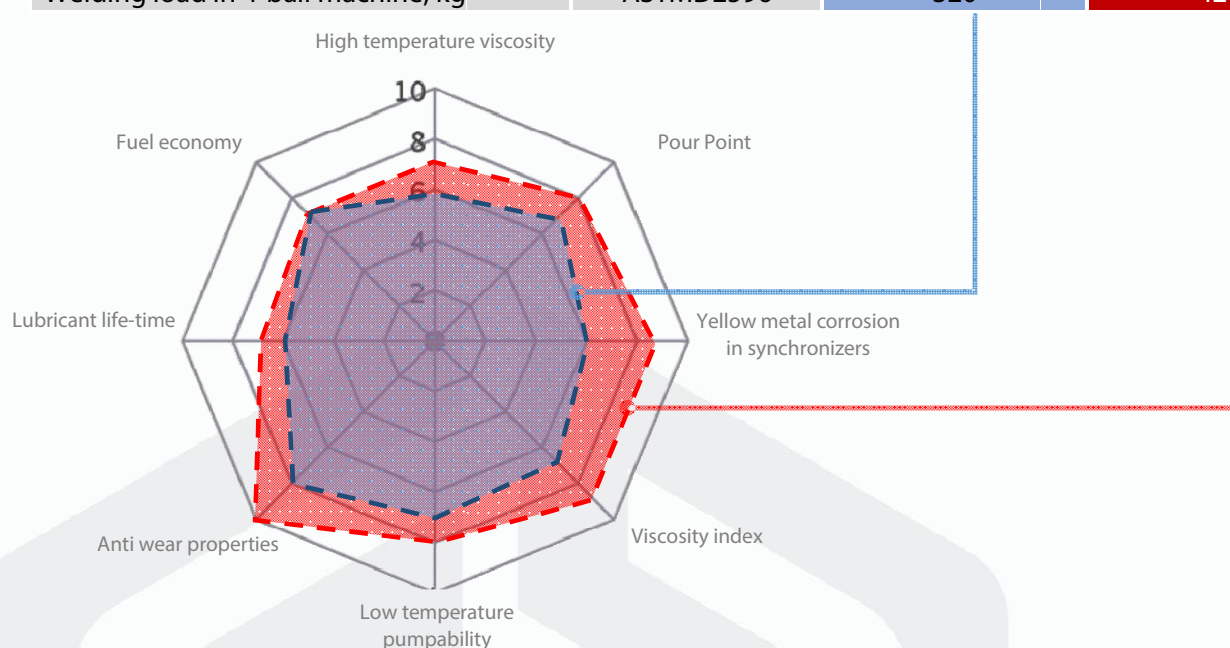
KATANA Habaki GL-4/5 75W-90 fully satisfies and is recommended to replace following types of gear oils: API GL-4/5, MIL-L2105 B/C/D, MIL-PRF-2105E, ZFTE-ML07A/16B/16C/16D/17A/17B/19B/21A.





TECHNICAL PARAMETERS

Parameter	Test method	Typical GL-4/5 75W-90 oil	Habaki GL-4/5 75W-90
Kinematic viscosity at 40°C, cSt	ASTM D445	98.5	99
Kinematic viscosity at 100°C, cSt	ASTM D445	14.7	16.4
Viscosity index	ASTM D2270	156	180
Dynamic viscosity at -40°C, cP	ASTM D2983	150 000	82500
Flash point in open cup, °C	ASTM D92	175	208
Pour point, °C	ASTM D97	-40	-45
TAN, mg KOH/g	ASTM D664	2	0.97
Copper corrosion	ASTM D130	2b	1b
Welding load in 4-ball machine, kg	ASTM D2596	320	420



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.