



KIREI
CHEMICAL

TECHNICAL DATA SHEET



KATANA MAKURI E6 5W-30

Fullysyntheticmotoroil



DESCRIPTION

KATANA Makuri E6 5W-30 – full synthetic low ash (Low SAPS) engine oil, specially designed for use in modern eco-friendly (Euro 6, Euro 5 and Euro 4) diesel engines (turbocharged or not) of trucks, buses, agriculture, road construction machines and other special equipment. It belongs to the UHPD (Ultra High Performance Diesel) class of oils with extended drain intervals (Long Life). Due to low viscosity improves fuel economy.

KATANA Makuri E6 5W-30 is produced according to the latest Japanese technology in accordance with the latest European (ACEA E6), Japanese (JASO DH-2) and OEM specifications. Suitable for use in all Euro-6 engines and below, includingequipped with soot particles filters (DPF), engine gas recirculation systems (EGR) and Selective Catalytic Reduction (SCR) exhaust systems. Oil has outstanding oxidation stability, anti-wear and high detergent-dispersant properties. Like all low-ash oils it is not recommended for high sulfur fuels (Euro-3 and below). Thanks to Shimo technology KATANA MakuriE6 5W-30 engine oil has excellent low-temperature characteristics.



TECHNICALADVANTAGES

50%

Higher life-time of
lubricant

KATANA Makuri E6 5W-30 has the increased total base number (TBN), which is on 40-60% higher than the standard ACEA E6 motor oil has. It makes it possible to increase the oil changing intervals.

50%

Lower toppings of fresh
oil

Thanks to the use of synthetic base oils with low volatility (test NOACK at 250°C) KATANA Makuri E6 5W-30 is characterized by low evaporation at high temperatures, which reduces the amount of toppings of new portions of fresh oil from 3 to 7 liters, depending on the operating conditions, and changing intervals. Itincreasestheeconomic efficiencyon 7-15%.

7%

Better fuel economy

Due to low viscosity synthetic basis oil has a low internal friction which helps to reduce fuel consumption (Fuel Economy).





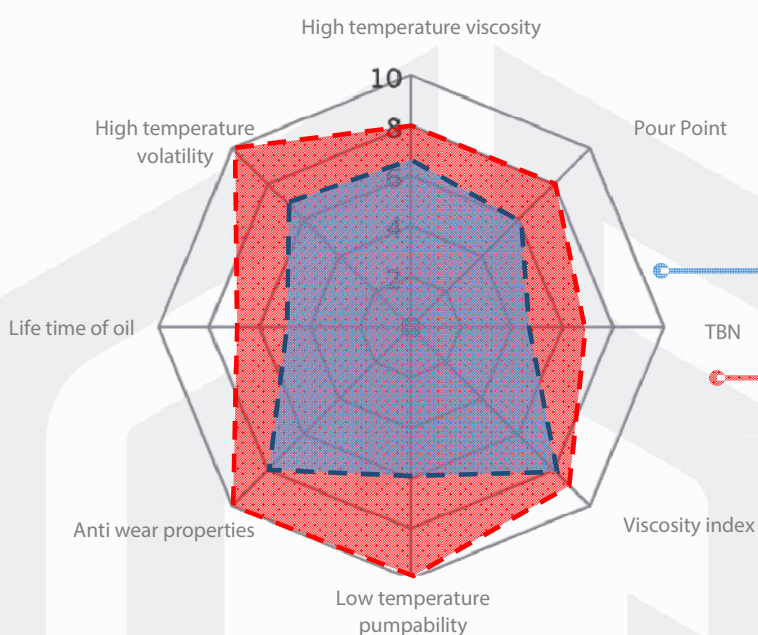
SPECIFICATIONS

KATANAMakuriE6 5W-30 fully satisfies and is recommended to replace following types of motor oils: ACEA E6-12/E4-12/E9-12; API CJ-4; JASO DH-2; MB 228.31/228.51; Volvo VDS-4; Mack EO-O Premium Plus; Renault RVI RLD-3; Cummins CES 20081; Caterpillar ECF-3; Deutz DQC IV-10 LA; MAN 3271-1/3477/3575; MTU Oil Category 3.1; Scania Low Ash



TECHNICAL PARAMETERS

Parameter		Test method	Typical ACEA E6 5W-30 motor oil	KATANAMakuri E6 5W-30
Kinematic viscosity at 40°C, cSt		ASTM D445	69	70
Kinematic viscosity at 100°C, cSt		ASTM D445	11.8	12.1
Viscosity index		ASTM D2270	168	172
MRV viscosity at -35°C, cP		ASTM D4684	60 000	25 000
TBN, mg KOH/g		ASTM D2896	7	10.4
Flash point in open cup, °C		ASTM D92	215	234
Noack evaporation loss, %		ASTM D5800	15	10.5
Pour point, °C		ASTM D97	-40	-45



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.