



KIREI
CHEMICAL

TECHNICAL DATA SHEET



KATANA MAKURI CNG 10W-40 LA

Full synthetic gas engine oil



DESCRIPTION

KATANA Makuri CNG 10W-40LA – full synthetic Low SAPS engine oil, specially designed for use in heavy-duty engines of modern trucks, buses, agriculture, road construction and other machines running on compressed natural gas (CNG, methane).

Oil has good detergent-dispersant properties, which ensures high engine cleanliness. Due to low content of Sulfated Ash, Sulfur and Phosphorus (low SAPS) prevents surface ignition and the formation of ash deposits on pistons, valves and combustion chamber. It provides excellent protection of engine against oxidation, corrosion, nitration and wear.



TECHNICAL ADVANTAGES

70%

Lower ash deposits

45%

Lower toppings of oil

20%

Lower pour point

KATANA Makuri CNG 10W-40 LA engine oil is produced on synthetic base oils and additives with low content of sulfated ash, sulfur and phosphorus, which guarantees the cleanliness in gas engine without deposits and prevents surface ignition.

Unlike traditional semisynthetic motor oils KATANA Makuri CNG 10W-40 LA thanks to high stable synthetic basis has reduced volatility in the Noack test (250°C). It provides low oil volatility during operation and, therefore, reduce toppings of new lubricant and increase the economic efficiency of oil.

KATANA Makuri CNG 10W-40 LA is produced on synthetic base oils and that is why has excellent pumpability at low temperatures and low pour point which is lower by 5-10 degrees than competitors.



SPECIFICATIONS

KATANA Makuri CNG 10W-40 LA fully satisfies and is recommended to replace following types of CNG motor oils: APICF, Cummins CES 20074, Detroit Diesel 93K216.



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ISO 9001 Quality System Management
ISO 14001 Environmental Management System

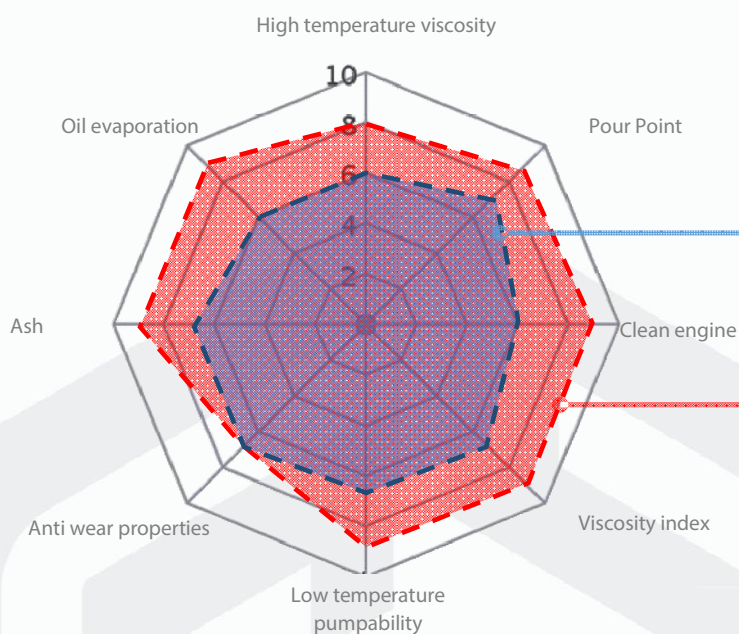
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TECHNICAL PARAMETERS

Parameter	Test method	TypicalCNG 10W-40 motor oil	KATANAMakuri CNG10W-40 LA
Kinematic viscosity at 40°C, cSt	ASTM D445	92.1	94.4
Kinematic viscosity at 100°C, cSt	ASTM D445	13.0	14.5
Viscosity index	ASTM D2270	140	160
MRVviscosity at -30°C, cP	ASTM D4684	60 000	30 000
TBN, mg KOH/g	ASTM D2896	7.5	5
Flash point in open cup, °C	ASTM D92	230	250
Noack evaporation loss, %	ASTM D5800	15	9
Sulfated ash	ASTM D874	1	0.6
Pour point, °C	ASTM D97	-30	-38
Zinc content, ppm	-		
Phosphorus content, ppm	-		



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.