

PRODUCT DESCRIPTION

TOTACHI MOTO 4T OPTIMA 20W-50 is a premium motorcycle oil for all 4-stroke motorcycles used on the road or off-road. The formulation is balanced with active components to guarantee rider's satisfaction. Good lubricating properties for high mileage and older motorcycles, providing good oil sealing on wider engine clearances. Lesser oil loss and good control on sludge for cleaner engines. Minimizes wear and maintains engine durability. Enhanced performance to protect the engine, clutch, and gearbox from mechanical failure.



Carefully balanced with TOTACHI's advanced **INFINITE™** Technology, offering continuous and robust protection for the engine and after-treatment systems. It exceeds the performance demands of high-power density engines, providing exceptional

cleanliness, power, wear protection and oxidative resistance to maximize the engine life.



Unique frictional properties to effectively balance power efficiency and fuel economy, while ensuring optimal clutch friction engagement and

durability. It enhances power output, enables smoother gear shifting and maintains a cooler engine, delivering reliable performance even in demanding riding conditions.

TOTACHI MOTO 4T OPTIMA 20W-50 has good viscosity control at high & low temperatures for faster oil pressure and horsepower rise. Provides optimum sealing between piston and cylinder to retain engine's full power. Good anti-rust and anti-corrosion properties. It's the right oil for stop-and-go driving conditions.

APPLICATION

Recommended for all types of 4-stroke gasoline motorcycle engines requiring a viscosity grade of SAE 20W-50 and JASO MA2 or MA oils. Ideal for bikes working under severe operating temperatures. Suitable for use in cold and warm climates. Meets the most demanding needs of American, Japanese, European, Chinese, Indian, Asian and other 4-stroke motorcycle makers.

WARRANTY

TOTACHI MOTO 4T OPTIMA 20W-50 meets or exceeds the OEM's warranty requirements of 4-stroke requiring API SN or lower engine oil. TOTACHI® guarantees full compliance on the written specifications indicated on product labels.

CUSTOMER BENEFITS

- **Outstanding wear protection in older bikes**
Provides good lubrication on high mileage or older engines to seal wider engine clearances.
- **Optimum friction performance**
Guarantees an efficient friction level to ensure perfect clutch engagement in a variety of riding modes.
- **Maintains engine cleanliness**
Effective detergent and dispersants to provide optimal reduction of sludge, deposits, carbons and varnish which can impair the engine efficiency.
- **Reduced maintenance costs**
Outstanding high temperature protection and anti-oxidation properties to retain the oil's quality throughout the service period, resulting in reduced repairs and lower long-term maintenance costs.
- **Excellent compatibility**
Product is fully compatible with all engine components, meets the latest environmental standards for modern engines.

**MEETS SPECIFICATIONS AND REQUIREMENTS OF:**

- API SN
- JASO MA2

Before using this product, ensure it is consistent with OEM's recommendations for the equipment operating conditions and customer's maintenance practices.

TYPICAL TEST DATA

CHARACTERISTICS	UNITS	VALUES	STANDARDS
SAE Grade	-	20W-50	SAE J300
Kinematic viscosity at: 40 °C	cSt	163.30	ASTM D445
100 °C	cSt	17.68	ASTM D445
Viscosity index	-	119	ASTM D2270
Cranking viscosity at -15°C	mPa-s	8730	ASTM D5293
Color	-	L2.5	ASTM D1500
Flash point	°C	268	ASTM D92
Pour point	°C	-33	ASTM D97
Density at 30 °C	kg/L	0.8683	ASTM D4052
Total Base Number	mg KOH/g	6.5	ASTM D2896

STORAGE AND HANDLING GUIDELINES

- Store in cool and dry places. Avoid exposing products to moisture.
- Avoid exposing products to direct sunlight.
- It is highly recommended to store drums indoors or under cover on pallets and racks.

HEALTH, SAFETY AND ENVIRONMENT PROTECTION

Information on health, safety and environment protection is described in the product Safety Data Sheet (SDS). The SDS file contains details on potential hazards, precautions and first aid measures, as well as information on environmental impact and disposal of used products.

TOTACHI INDUSTRIAL CO., LTD. disclaims any liability in case the product is used with violation of these instructions and warnings, or it is not used for its intended purpose. Before using product other than intended, consult your local TOTACHI® distributor.