

# HEAVY DUTY DIESEL

## SAE 50

### PRODUCT DESCRIPTION

TOTACHI HEAVY DUTY DIESEL SAE 50 is a mono-grade engine oil for four cycle high output diesel engines of industrial drives and mobile equipment, operating in hot climate conditions or with extremely high loads. The product is made using highly refined base oils with addition of a unique additives package, providing stability of oil in critical loads and high operating temperatures.

TOTACHI HEAVY DUTY DIESEL SAE 50 possesses excellent shear stability and provides robust protection of engine parts even under boundary lubrication. The product contributes to decrease of burnout and oil losses in engines with large service hours.

### APPLICATION

- TOTACHI HEAVY DUTY DIESEL SAE 50 is recommended for powerful diesel engines of industrial drives and mobile equipment, operating in severe conditions with very high loads, when oil has not sufficient time to cool.
- TOTACHI HEAVY DUTY DIESEL SAE 50 is a perfect choice for highly loaded four-cycle diesel engines with various systems of performance increase, such as supercharge with intercooling, Variable Valve Timing system (VVT) and others.
- The product can be applied in diesel engines with increased operating hours, with considerable burnout and oil losses.

### TYPICAL TEST DATA

CHARACTERISTICS	UNITS	VALUES	ASTM
SAE Grade		50	
Kinematic viscosity at:			
40 °C	cSt	207,0	ASTM 445
100 °C	cSt	18,2	ASTM 445
Flash point	°C	248	ASTM D92
Pour point	°C	-9	ASTM D97
Density at 30 °C	Kg/l	0,895	ASTM D4052
Total Base Number, TBN	mgKOH/g	15,49	ASTM D2896
Viscosity index		96	ASTM D2270
Color		L3,5	ASTM D1500

### CUSTOMER BENEFITS

- The specially selected additives package effectively reduces wear of loaded parts of engine, including those, operating under boundary lubrication and helps maximize overall engine durability.
- Highly refined mineral base oils provide excellent stability and anti-oxidizing characteristics, thus allowing for reliable operation of engines, working with extremely high loads or in hot climate conditions.
- The product provides high performance and contributes to decrease of oil consumption in engines with large service hours.

### MEETS SPECIFICATIONS AND REQUIREMENTS OF:

- API CH-4;
- ACEA E3.

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

### ***STORAGE AND HANDLING GUIDELINES***

- Avoid exposing products to direct sunlight.
- Cans, packed in cardboard boxes, must be stored in dry places. Avoid exposing products to moisture.
- It is highly recommended to store drums indoors on pallets and racks.
- If stored outdoors drums should be placed sidewise to avoid accumulation of moisture.

### ***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.

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