

# VT5009

CI-4/CH-4 DIESEL ENGINE  
OIL PACKAGE



## DATA SHEET

### PRODUCT INTRODUCTION:

**VT5009** Diesel Engine Oil Package is formulated with a number of high-quality detergent, dispersant, ZDDP, high-temp anti-oxidant and other additive components. The API CI-4/CH-4 diesel engine oils formulated with this package with appropriate Group I, II and III base oils provide excellent lubricating, detergency, dispersancy, anti-oxidation and anti-wear performance, protecting the engine effectively.

### TECHNICAL SPECIFICATION:

API PERFORMANCE LEVEL	SAE VISCOSITY GRADE	TREAT RATE
CI-4	15W-40, 20W-50	10.5%
CH-4	15W-40, 20W-50, 40, 50	8.5%

ITEM	INDEX	TYPICAL VALUE	TEST METHOD
Appearance	Brown viscous liquid	Brown viscous liquid	Visual Inspection
Density (20°C), kg/m <sup>3</sup>	968-1008	988	ASTM D4052
Kinematic Viscosity (100°C), mm <sup>2</sup> /s	Report	185	ASTM D445
Flash Point (COC), °C	≥180	220	ASTM D92
Total Base Number, mgKOH/g	97-119	108	ASTM D2896
Ca Content, m%	2.82-3.44	3.15	ASTM D4951
Zn Content, m%	1.13-1.38	1.24	ASTM D4951
P Content, m%	0.97-1.19	1.10	ASTM D4951
N Content, m%	0.89-1.21	1.05	ASTM D5762
Mo Content, m%	0.037-0.056	0.048	ASTM D4951

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### PRODUCT STORAGE/HANDLING/TRANSPORTATION/PACKAGE:

- Packed in 200L iron drums or as required by customers, subject to the actual weight.
- The long-term storage temperature shall not exceed 45°C, and the loading/unloading or blending temperature shall not exceed 65°C.
- This product is not flammable, explosive and corrosive. In terms of safety, environmental protection and use, it is the same as general petroleum products with no special protection required.