

VT1049M, VT1050M

MEDIUM-SPEED TRUNK PISTON ENGINE OIL PACKAGE



DATA SHEET

PRODUCT INTRODUCTION:

VT1049M and VT1050M refers to a group of high performance marine medium speed trunk piston diesel engine oil packages, which is composed of detergent, dispersant, ZDDP and etc. Of which VT1049M serves as core package and VT1050M serves as high performance BN booster, the marine medium speed trunk piston diesel engine oil formulated with a combination of both packages provide excellent acid neutralization, detergency, dispersancy, anti-oxidation, anti-corrosion and water separation performance. Blending with Group I and II base oils and with the combination of VT1049M and VT1050M is able to formulate Medium-speed trunk piston engine oil, meeting Wärsilä specification with BN ranges from 12-50mgKOH/g and viscosity covers SAE30 and SAE40.

TECHNICAL SPECIFICATION:

BN Level	12	15	20	30	40	50
VT1049M, %	4	4	4	4	4	4
VT1050M, %	2	3.2	4.6	7.7	11	14.1

ITEM	VT1049M TYPICAL	TEST METHOD
Kinematic Viscosity (100°C), mm ² /s	74	ASTM D445
Density (20°C), kg/m ³	1006	ASTM D4052
Flash Point (COC), °C	≥200	ASTM D92
Total Base Number, mg (KOH)/g	142	ASTM D2896
Ca Content, m% 4.82	4.82	ASTM D4951
Zn Content, m% 1.67	1.67	ASTM D4951
P Content, m% 1.39	1.39	ASTM D4951
ITEM	VT1050M Typical Value	TEST METHOD
Kinematic Viscosity (100°C), mm ² /s	118	ASTM D445
Density (20°C), kg/m ³	1096	ASTM D4052
Flash Point (COC), °C	≥200	ASTM D92
Total Base Number, mg (KOH)/g	315	ASTM D2896
Ca Content, m%	11.46	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.