



YOKOHAMA / YOKOMARIN

SAE 50

TECHNICAL DATA SHEET | TDS

WL SERIES | MARINE CYLINDER OILS

PRODUCT DESCRIPTION

YOKOHAMA YOKOMARIN WL Series is a range of SAE 50 cylinder lubricants for low-speed, two-stroke crosshead marine diesel engines. Its BN 25, 40, 50, 55, 70 and 100 grades provide different levels of alkaline reserve for cylinder lubrication. The formulation is designed to support piston-ring and liner cleanliness, neutralization of combustion acids, deposit control and protection against corrosive and mechanical wear.

APPLICATIONS

For cylinder lubrication systems of low-speed, two-stroke crosshead marine diesel engines requiring an SAE 50 lubricant. The range offers six nominal BN grades to suit differing engine and fuel conditions.

KEY LUBRICATION FEATURES

SAE 50 cylinder lubrication
Six nominal BN grades: 25, 40, 50, 55, 70 and 100
Piston-ring and liner cleanliness

Neutralization of combustion acids
Control of cylinder deposits
Corrosive and mechanical wear protection

TYPICAL TECHNICAL CHARACTERISTICS

PROPERTY	UNIT	TYPICAL VALUE					
		50/25	50/40	50/50	50/55	50/70	50/100
Kinematic viscosity at 40°C	mm²/s	215.00	217.00	220.00	230.00	218.67	228.50
Kinematic viscosity at 100°C	mm²/s	18.83	19.31	19.00	20.00	19.43	19.22
Viscosity index	—	97.00	99.67	97.00	100.00	98.57	96.40
Density at 15°C	kg/m³	909.33	920.57	925.00		933.14	946.50
Flash point, open cup	°C	230.00	251.40			249.50	243.25
Pour point	°C	-9.50	-15.00	-9.00	-15.00	-12.43	-12.60
Total base number (TBN)	mg KOH/g	25.13	39.97	49.88	55.00	69.98	100.00

Note: The values shown in this table are typical values and do not constitute product specifications. Minor variations may occur between production batches due to normal manufacturing tolerances.