



YOKOHAMA / YOKOMARIN

SAE 30

TECHNICAL DATA SHEET | TDS

WS SERIES | / SAE 40 MARINE ENGINE OILS

PRODUCT DESCRIPTION

YOKOHAMA YOKOMARIN WS Series comprises single-grade crankcase oils for four-stroke trunk-piston marine diesel engines. SAE 30 and SAE 40 grades are available with BN 12, BN 15 and BN 20 levels. The formulations are designed to support engine cleanliness, oxidation stability, corrosion protection and neutralization of acidic combustion products in medium-speed engine service.

APPLICATIONS

For crankcase lubrication in marine and stationary four-stroke trunk-piston diesel engines, including propulsion and auxiliary machinery and generator sets, where SAE 30 or SAE 40 is specified. Grade options are available for engines operating with distillate, blended or residual fuels, subject to the engine and fuel conditions.

KEY LUBRICATION FEATURES

SAE 30 and SAE 40 single grades BN 12, BN 15 and BN 20 options Piston and ring deposit control	Neutralization of acidic combustion products Oxidation and corrosion protection Oil-film protection on loaded surfaces
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TYPICAL TECHNICAL CHARACTERISTICS

PROPERTY	UNIT	TYPICAL VALUE					
		30/12	40/12	30/15	40/15	30/20	40/20
Kinematic viscosity at 40°C	mm²/s	98.67	155.50	105.00	154.50	102.00	167.00
Kinematic viscosity at 100°C	mm²/s	11.13	15.05	11.70	15.23	11.33	15.07
Viscosity index	-	100.40	97.25	99.67	98.67	100.00	96.33
Density at 15°C	kg/m³	894.75	897.83	906.00	907.25	911.50	915.25
Flash point, open cup	°C	239.50	243.50	243.67	247.33	234.67	238.67
Pour point	°C	-16.50	-16.00	-12.00	-12.00	-13.50	-13.50
Total base number (TBN)	mg KOH/g	12.17	12.20	15.10	15.10	20.45	20.45

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.