

## PRODUCT DATA SHEET

### PETROSHIELD 3

PETROMIN PETROSHIELD 3 OIL Series is highly alkaline trunk piston engine oil for crankcase and cylinder lubrication requirement of trunk-piston and cross-head type marine engines burning high sulphur residual fuels (over 3.0% sulphur).

They are a combination of high quality base stocks and additives designed to impart acid neutralization, detergent and dispersant properties and oxidation stability.

#### BENEFITS

- Low cylinders wear rates.
- Cleaner pistons, ports and cylinders.
- Suitable for both trunk piston and cross-head engines.
- Fast separation from water in case of contamination

#### SPECIFICATIONS & APPROVALS

- MAN B&W
- WARTSILA NSD
- CATERPILLAR
- DUETZ
- BLACKSTONE
- RUSTON

#### APPLICATIONS

PETROMIN PETROSHIELD 3 OIL Series is recommended for use as cylinder oils in marine or stationary medium speed diesel engines under a wide variety of operating conditions. They are suitable for use in both cross-head and trunk-piston type engines.

#### PRODUCT CHARACTERISTICS\*

PROPERTIES	UNITS	VALUE			TEST METHOD
SAE GRADE	-	<b>30</b>	<b>40</b>	<b>50</b>	-
Specific Gravity @ 15 °C	-	0.915	0.919	0.924	ASTM D-4052
Viscosity @ 40 °C	mm <sup>2</sup> /s	104.0	148.0	228.0	ASTM D-445
Viscosity @ 100 °C	mm <sup>2</sup> /s	11.9	14.0	19.9	ASTM D-445
Viscosity Index	-	102	101	100	ASTM D-2270
Flash Point, COC	°C	242	258	268	ASTM D-92
Pour Point	°C	-9	-6	-6	ASTM D-97
Base Number	mg KOH/g	40	40	40	ASTM D-2896
Sulfated Ash	% wt	4.0	4.0	4.0	ASTM D-874
Color	-	5.0	3.5	5.5	ASTM D-1500
Product Code	-	<b>4330</b>	<b>4340</b>	<b>4350</b>	-

\*The information and figures given here are typical of current production and conform to specification, minor variations may occur.

