

## PRODUCT DATA SHEET

### PETROPOWER PLUS 3

PETROMIN PETROPOWER PLUS 3 OIL Series is highly alkaline Trunk Piston Engine Oil for crankcase and cylinder lubrication requirement of cross-head type marine engines burning high Sulphur residual fuels (suitable up to 3.0 % Sulphur). They are combination of high quality base stocks and additives designed to impart acid neutralization, detergent, dispersant properties and oxidation stability. Petropower Plus 3 oils can handle heavy residual fuels with high asphalt content.

#### BENEFITS

- Excellent TBN retention, with low oil consumption.
- Low cylinders wear rates.
- Cleaner piston, ports and cylinders, thus extending overhauls.
- Fast separation from water in case of water contamination.
- Low under crown deposits.
- Controls sludge formation, thus increasing oil filter life and reduces cleaning frequencies.

#### SPECIFICATIONS & APPROVALS

Petromin PETROPOWER PLUS 3 OIL Series has the following Builder Approvals:

- WARTSILA

Petromin PETROPOWER PLUS 3 OIL Series meets or exceeds the requirements of:

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

#### APPLICATIONS

**PETROMIN PETROPOWER PLUS 3** OIL Series is primarily recommended for use in high-output trunk piston marine diesel engines operating on heavy residual fuels (Sulfur up to 3.0 %). They are suitable for four-stroke high BMEP medium speed diesel engines. Meets the requirement of WARTSILA, MAN (B&W), KHD-DEUTZ, PIELSTICK, NIGATA, MAK, YANMAR, DAIHATSU, MIRLESS BLACKSTONE and COCKERILL engine builders.



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### PRODUCT CHARACTERISTICS\*

PROPERTIES	UNITS	VALUE			TEST METHOD
SAE GRADE	-	<b>30</b>	<b>40</b>	<b>50</b>	-
Specific Gravity @ 15 °C	-	0.913	0.916	0.919	ASTM D-4052
Viscosity @ 40 °C	mm <sup>2</sup> /s	104.0	138.0	205.0	ASTM D-445
Viscosity @ 100 °C	mm <sup>2</sup> /s	11.8	14.1	19.5	ASTM D-445
Viscosity Index	-	102	99	104	ASTM D-2270
Flash Point, COC	°C	242	255	265	ASTM D-92
Pour Point	°C	-9	-9	-6	ASTM D-97
Base Number	mg KOH/g	40.0	40.0	40.0	ASTM D-2896
Sulfated Ash	% wt	4.6	4.6	4.6	ASTM D-874
FZG Load carrying capacity failure stage	-	12	12	12	-
Color	-	4.5	4.5	4.5	ASTM D-1500
Product Code	-	<b>2670</b>	<b>2710</b>	<b>2690</b>	-

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

