

PRODUCT DATA SHEET

ENGINE OIL RR

PETROMIN ENGINE OIL RR 40 Series is premium quality zinc-free oil, of SAE 40 grade, blended for use in most demanding high output railroad and marine engines and power generating sets. These oils provide superior thermal stability, oxidation resistance, high alkalinity, high detergent and dispersant properties. They are available in three distinct TBN levels of 13, 16 and 20. RR 4020 meets Caterpillar Micro Oxidation Test requirements (CMOT).

BENEFITS

- Excellent oxidation stability.
- Good alkalinity retention.
- Excellent protection of silver-coated and turbocharger bearings of EMD engines.
- Suitable for railroad and marine engines which require zinc-free oils.

APPLICATIONS

Zinc-free marine and railroad diesel engines oils are recommended for use in high output diesel engines and also in some power generating sets. It is recommended for two-stroke diesel engines as per General Motors EMD specification, Caterpillar DI engines and ALCO diesel engines.

SPECIFICATIONS & APPROVALS

Petromin ENGINE OIL RR meets or exceeds the requirements of:

- API CF
- LMOA Generation V
- General Motors EMD MI 1761



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PRODUCT CHARACTERISTICS*

PROPERTIES	UNITS	VALUE			TEST METHOD
RR Code	-	4013	4016	4020	
SAE Grade	-	40	40	40	-
Specific Gravity @ 15 °C	-	0.902	0.904	0.906	ASTM D-4052
Viscosity @ 40 °C	mm ² /s	148.0	143.0	141.0	ASTM D-445
@ 100 °C	mm ² /s	15.1	15.0	15.0	ASTM D-445
Viscosity Index	-	103	106	107	ASTM D-2270
Flash Point, COC	°C	272	276	276	ASTM D-92
Pour Point	°C	-6	-6	-6	ASTM D-97
Base Number	mg KOH/g	13.2	16.2	20.6	ASTM D-2896
Sulphated Ash	% wt	1.41	1.75	2.18	ASTM D-874
Zinc	ppm	< 3.8	< 4.7	< 5.9	ASTM D-4951
Color	-	4.5	4.5	5.5	ASTM D-1500
Product Code		2480	2490	2500	

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

