

# Product Data Sheet



## PETRONAS DIESELUBE RR 13 SERIES

### Premium Quality 13 TBN Railroad Engine Oils

**PETRONAS Dieselube RR 13** series oils are a premium quality "zinc-free" LMOA Generation 5, API CF/CF-2 diesel engine oils for use in high and medium speed heavy-duty automotive and high output railroad diesel engines fitted with silver bearings burning distillate fuel with sulphur content up to 0.7%wt.

It is manufactured using the finest quality base oils and advanced zinc-free and chlorine-free additives system to provide outstanding engine cleanliness, especially in crankcase and camshaft areas. They provide excellent high temperature oxidation and thermal stability, low volatility, excellent load carrying properties and superior corrosion protection. Available in multigrade (SAE 20W-40) for fuel economy benefits.

#### Applications

Recommended for the lubrication medium-speed General Motors – EMD and General Electric locomotive and marine diesel engines fitted with silver bearing requiring the use of non-zinc containing engine oils. Also highly recommended for Caterpillar 3601 engine

#### Features and Benefits

- High thermal and oxidation stability ensure excellent high temperature deposits control in areas such as piston undercrown and piston ring belt area enabling piston rings to function efficiently to maintain high power output and engine efficiency
- The advanced "zinc-free" ashless antiwear additive system provides excellent component wear protection and guards against attack of silver plate bearings
- Good TBN retention characteristics ensure excellent corrosion protection for bronze, copper and silver parts, thereby minimizing corrosive wear even with fuel of high sulphur content
- Easier cold starting and fuel economy benefits for the 20W-40 grade

#### Specifications, Approval and Recommendation

- API CF/CF-2
- LMOA Generation 5
- GE Generation for long life
- Caterpillar 3601

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#### Typical Properties

| Characteristics          |        |
|--------------------------|--------|
| 1320M<br>20W-40          |        |
| Density @ 15 °C, kg/l    | 0.8971 |
| Pour Point, °C           | -27    |
| Flash Point, °C          | 252    |
| Kinematic Viscosity, cSt |        |
| @ 40 °C                  | 133.3  |
| @ 100 °C                 | 15.0   |
| Viscosity Index          | 115    |
| TBN,mg KOH/g             | 13     |
| Sulphated ash %wt        | 1.5    |

#### Health, Safety and Environment

For further assistance on product MSDS, recommendation or technical queries, please liaise with the regional technical services engineer or contact HQ technical engineers.