

## Locomotive Oil 4<sup>th</sup> Generation

### Advantages

- ⊙ Excellent thermal and oxidation stability, detergency and dispersancy, effectively avoiding formation of deposits, keeping engine highly clean
- ⊙ Outstanding anti-wear, anti-scratch and oil film protection abilities, preventing wear of parts, prolonging service life of parts
- ⊙ High base number and excellent TBN retention, effectively neutralizing combustion product of fuel containing sulphur, prolonging oil drain interval

### Performance specification

The product meets the following specifications:

- ⊙ LMOA 4<sup>th</sup> generation oil specification
- ⊙ GB 17038-1997

### Applications

- ⊙ Suitable for locomotive powered by high sulphur content fuel (over 0.5% of sulphur content)
- ⊙ Suitable for locomotive requiring locomotive oil 4<sup>th</sup> generation
- ⊙ Suitable for various kinds of medium/high speed four stroke locomotive including ND5 locomotive
- ⊙ Also suitable for lubrication of some marine engines

### Typical properties

Items	Locomotive oil 4 <sup>th</sup> generation
SAE viscosity grade	40
Kinematic viscosity (100℃), mm <sup>2</sup> /s	14.2
Flash point (COC), ℃	260
Pour point, ℃	-11
Total base number, mgKOH/g	11