# Railway locomotive fifth generation diesel

## Performance Overview

Maxtop The fifth generation diesel engine oil of railway locomotive is made of deep refined mineral lubricating oil as the base oil, adding high quality additives such as clean dispersion, anti-oxygen and anti-corrosion. According to customer demand, we can produce five generations of railway locomotive diesel oil with different viscosity levels. Lubricating properties Reduce friction: The synthetic oil based formula effectively reduces internal engine wear. Anti-wear protection: form a stable oil film to extend the service life of the equipment. Reduce operating temperature: Excellent thermal stability to prevent oil deterioration at high temperatures.

## Application Scenario

Including high-power, high-heat-strength diesel locomotive engines, high-smoke locomotives, and railway diesel locomotives operating in low-temperature environments

## Features

**01**

Soot dispersibility: The fifth generation diesel engine oil has excellent soot dispersibility, thanks to the strengthening of its composite additives, which can effectively reduce the viscosity growth rate of diesel engine oil and extend the oil change cycle.

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**03**

Anti-wear performance, the fifth-generation diesel engine oil meets the lubrication requirements of high-smoke locomotives and shows excellent anti-wear performance.

**04**

Low temperature starting performance ensures that the locomotive can start smoothly in cold winter.

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# Performance indicators of the fifth generation diesel engine oil for railway locomotives

| Project | | Quality indicators | |
|---|---|---|---|
| Model | | 40 | 20W/40 |
| Kinematic viscosity ( 100 ℃), mm2 / s | | 14~16 | |
| Low temperature dynamic viscosity (-10℃) (mPa.s) | not more than | - | 4500 |
| Boundary pumping temperature, ℃ | not higher than | - | -15 |
| Flash point (open), ℃ | No less than | 225 | 215 |
| Pour point, ℃ | No higher than | -5 | -18 |
| Sulfated ash (mass fraction) /% | not more than | Report | |
| Mechanical impurities, % (mass fraction) | not more than | 0.01 | |
| Total base number, mgKOH/g | not less than | 17 | |
| Foaming properties (foam tendency / foam stability), mL/mL | | | |
| 24 ℃ | No more than | 25/0 | |
| 93.5 ℃ | No more than | 150/0 | |
| After 24 ℃ | No more than | 25/0 | |
| Water (volume fraction), % | No more than | trace | |
| Calcium content, (mass fraction) % | not less than | 0.53 | |
| Zinc content, (mass fraction) % | not less than | 0.09 | |

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