

Product	Sinopec Railroad Diesel Engine Oil G4
Summary	<p>Product description</p> <p>Sinopec Railroad Diesel Engine Oil G4 is a LMOA “ Generation 4” oil, which is formulated with high viscosity index mineral base oils and a multifunctional additive to meet the requirements of the main Chinese railroad diesel engine manufacturers. The product contains zinc additive , which has excellent wear resistance and oxidation resistance, especially is suitable for use in railway locomotive without silver component . Available in two SAE viscosity grades: 40 and 20W-40.</p>

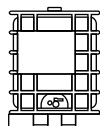
Available sizes



PAIL – 18L



DRUM – 200L



IBC – 1000L

Also
available
in bulk

Applications

Sinopec Railroad Diesel Engine Oil G4 is suitable for use in:

- The product contains zinc additive, suitable for use in railway locomotive without silver component .
- Railroad diesel engines which require a lubricant of LMOA Generation 4.

Features and benefits

- Excellent wear resistance, reduce wear and prolong the service life of the engine.
- Good high temperature oxidation resistance with clean dispersion performance, inhibit the formation of carbon deposition and sludge.
- Good oil drain intervals to lower maintenance cost.
- 15 TBN

Product Data Sheet

Typical data

Sinopec Railroad Diesel Engine Oil G4		
SAE grade	40	20W-40
Kinematic viscosity, ASTM D 445		
cSt @100°C	15.2	15.1
Dynamic viscosity, CCS, ASTM D 5293		
cP @ -10°C	-	3,700
Borderline pumping temperature, ASTM D 3829		
°C	-	-15
Viscosity index, ASTM D 2270	99	112
Sulfated ash, wt%, ASTM D 874	1.7	2.1
Calcium, wt%	0.49	0.52
Zinc, wt%	0.16	0.18
Total base number, mg KOH/g, ASTM D 2896	15.0	15.2
Pour point, °C, ASTM D 97	-12	-24
Flash point (COC), °C, ASTM D 92	254	236
Density @ 20°C, kg/l, ASTM D 4052	898.2	892.7

These data are given as an indication of typical values and not as exact specifications.

Industry and OEM specifications

Sinopec Railroad Diesel Engine Oil G4 meets the performance requirements of the following industry specifications:	
LMOA	Generation 4
API	CD
TB/T ¹	2956-2009
GB/T ²	17038-1997

¹Note: 'TB/T' standards are the Departmental Standards of The Chinese Railway Ministry.

²Note: 'GB/T' standards are the National Standards of the People's Republic of China.

Accuracy of information

Data provided in this PDS is typical and subject to change as a result of continuing product research and development. The information given was correct at the time of printing. The typical values given are subject to variations in the testing procedures and the manufacturing process may also result in slight variations. Sinopec guarantees that its lubricants meet any industry and OEM specifications referred to on this data sheet.

Sinopec cannot be held responsible for any deterioration in the product due to incorrect storage or handling. Information on best practice is available from your local distributor.

Product and environmental safety

This product should not cause any health problems when used in the applications suggested and when the guidance provided in the Material Safety Data Sheet (MSDS) is followed. Please consult the MSDS for more detailed advice on handling; MSDSs are available from your local distributor. Do not use the product in applications other than those suggested.

As with all products, please take care to avoid environmental contamination when disposing of this product. Used oil should be sent for reclamation/recycling or, if not possible, must be disposed of according to relevant government/authority regulations.

The SINOPEC trademark is registered and protected.

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Sinopec Railroad Diesel Engine Oil G4

Product	Sinopec Railroad Diesel Engine Oil G5
Summary	Product description Sinopec Railroad Diesel Engine Oil G5 is a LMOA “Generation 5” oil, which is formulated with high-quality mineral base oils and a multifunctional additive to meet the requirements of the main railroad diesel engine manufacturers. The product is zinc-free, especially suitable for use in railroad engine with silver component that would be corrosive with zinc additives. Available in two SAE viscosity grades: 40 and 20W-40.

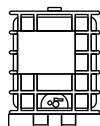
Available sizes



PAIL – 18L



DRUM – 200L



IBC – 1000L

Also
available
in bulk

Applications

Sinopec Railroad Diesel Engine Oil G5 is suitable for use in:

- General Electric and EMD railroad diesel engines, for formulated with a additive package which is fully approved by GE and EMD.
- Railroad diesel engines which require a lubricant of LMOA Generation 5.
- Suitable for mixed fleet use, for which is also meet the requirement of API CD, CF and CF-2.

Features and benefits

- Zinc-free and non-corrosive to silver component, ensuring excellent silver bearing lubricity.
- Excellent deposit control, ensuring engine cleanliness.
- Extended oil drain intervals to lower maintenance cost.
- Chlorine Free.
- 13 TBN

Typical data

Sinopec Railroad Diesel Engine Oil G5		
SAE grade	40	20W-40
Kinematic viscosity, ASTM D 445		
cSt @100°C	15.28	15.75
Dynamic viscosity, CCS, ASTM D 5293		
cP @ -10°C		4,360
Mini-rotary viscometer (MRV), ASTM D 4684		
cP @ -15°C		11,500
Viscosity index, ASTM D 2270	101	114
Sulfated ash, wt%, ASTM D 874	1.48	1.46
Calcium, wt%	0.445	0.446
Zinc, ppm	<10	<10
Total base number, mg KOH/g, ASTM D 2896	13	13
Pour point, °C, ASTM D 97	-6	-21
Flash point (COC), °C, ASTM D 92	236	226
Density @ 20°C, kg/l, ASTM D 4052	894.5	891.2

These data are given as an indication of typical values and not as exact specifications.

Industry and OEM specifications

Sinopec Railroad Diesel Engine Oil G5 meets the performance requirements of the following industry specifications:	
LMOA	Generation 5
API	CD, CF, and CF-2 ⁽¹⁾ (1) Monograde only
GE	Generation 4LL Lubricating Oil
EMD	

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