

<b>Product</b>	<b>Sinopec Tulux T500 Classic Diesel Engine Oil (CI-4/SL)</b>
<b>Summary</b>	<b>Product description</b> Sinopec Tulux T500 Classic Diesel Engine Oil (CI-4/SL) is formulated with hydrocracked high viscosity index base oils and advanced multifunctional additive technology to meet the requirements of a wide range of engine manufacturers.  Suitable for pre EPA 2007 diesel engines, where excellent soot control is required. Also suitable for use in engines with or without EGR systems.  Available as 15W-40 and 20W-50 multigrades to suit specific application requirements.

## Applications

Sinopec Tulux T500 Classic Diesel Engine Oil (CI-4/SL) is suitable for use in:

- Both light-duty and heavy-duty vehicles operating under severe conditions, such as long-distance or urban traffic vehicles.
- Off-highway applications in the mining, quarrying, construction and agricultural industries.
- Industrial power generation engines.
- Heavy duty diesel engines operating continuously under heavy or high load-factor conditions.
- Gasoline engines that requires a monograde oil of API SL or lower quality.

## Features and benefits

- Formulated with hydrocracked high viscosity index base oils, which provide improved oxidation control.
- Outstanding soot and deposit control provide protection against piston deposits and valve train wear, and ensure engine cleanliness and smooth running.
- Excellent control of aeration and foaming ensures protection of engine parts.
- High-quality base stocks and an advanced additive system work to reduce the build up of sludge and reduce oil thickening, thereby keeping the product in grade for longer and extending oil life.
- High acid neutralisation ability, together with TBN retention, provides rust and corrosion protection and prolongs engine life.
- Excellent thermal and oxidation stability protect the engine against rust, corrosion and wear caused by the formation of sludge and deposits.
- Good elastomer compatibility ensures longer gasket and seal life.
- Excellent low-temperature properties ensure smooth start up at low temperature and protect against start-up wear.
- Suitable for mixed fleets so reduces inventory costs.

# Product Data Sheet

## Typical data

<b>Sinopec Tulux T500 Classic Diesel Engine Oil (CI-4/SL)</b>		
SAE grade	15W-40	20W-50
Kinematic viscosity, ASTM D 445		
cSt @ 40°C	107.58	173.8
cSt @ 100°C	14.15	19.00
Dynamic viscosity, CCS, ASTM D 5293		
cP @ -15°C	–	8,261
cP @ -20°C	6,630	–
Viscosity index, ASTM D 2270	133	124
NOACK volatility, ASTM D 5800	10	8
Sulfated ash, wt%, ASTM D 874	1.61	1.62
TBN, mg KOH/g, ASTM D 2896	10.4	10.4
Pour point, °C, ASTM D 97	-36	-29
Flash point (COC), °C, ASTM D 92	234	244
Density @ 15°C, kg/l, ASTM D 4052	0.875	0.889

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

## Industry and OEM specifications

<b>Sinopec Tulux T500 Classic Diesel Engine Oil (CI-4/SL) meets the performance requirements of the following industry specifications:</b>	
ACEA	E7
API Service Classification	Diesel: CI-4, CH-4 and earlier HDDEO specifications
	Petrol/Gasoline: SL
JASO	DH-1
GB <sup>1</sup>	11122-2006 (CI-4)
	11121-2006(SL)
<b>Sinopec Tulux T500 Classic Diesel Engine Oil (CI-4/SL) holds the following formal industry approvals/licences:</b>	
API Service Classification	CI-4/SL

<sup>1</sup>Note: 'GB' standards are the National Standards of the People's Republic of China.

# Product Data Sheet

<b>Sinopec Tulux T500 Classic Diesel Engine Oil (CI-4/SL) meets the performance requirements of the following OEM specifications:</b>	
Caterpillar	Cat ECF-1-a
Cummins	CES 20078(20W-50), <u>20077</u> , <u>20076</u> (15W-40)
Detroit Diesel	93K215(15W-40)
Mack	EO-M plus(15W-40)
Man	3275(15W-40)
Mercedes Benz	MB 228.3(15W-40)
MTU	MTU Type 2(15W-40)
Volvo	VDS-3, VDS-2(15W-40)
Renault Truck	RLD-2(15W-40)

## 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.

Issued: March 2017

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Sinopec-Tulux-T500-Classic-Diesel-Engine-Oil-CI-4/SL