

<b>Product</b>	<b>Sinopec Tulux T400 Diesel Engine Oil</b>
<b>Summary</b>	<b>Product description</b> Sinopec Tulux T400 Diesel Engine Oil is a premium quality, heavy duty diesel engine oil formulated with highly refined base oils and an additive package containing advanced dispersants and detergents. It is designed for both on-highway and off-highway use in high-speed, four-stroke cycle diesel engines designed to meet Euro III (ADR 79/01) emissions standards. Available in three multigrades: 10W-30, 15W-40 and 20W-50.

### Applications

Sinopec Tulux T400 Diesel Engine Oil is suitable for use in:

- High-speed, four-stroke cycle diesel engines, requiring an API CH-4 quality oil to meet Euro III (ADR 79/01) emissions standards.
- Heavy duty, turbocharged diesel engines of container trailers operating at high pressures.
- Large, heavy duty diesel engines used in off-road applications in the agricultural, mining and construction industries.
- Heavy duty power generation units.
- Gasoline engines requiring an API SJ quality oil.
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### Features and benefits

- Excellent detergent and dispersant properties provide soot and deposit control, protect against piston deposits and valve train wear, and ensure engine cleanliness and smooth running.
- Good shear stability properties ensure that viscosity is maintained, even under severe, high-temperature service conditions, providing improved engine wear protection and extended engine life.
- Outstanding antiwear properties protect against cylinder liner and bearing wear extending engine life.
- Excellent TBN retention and protection against acid corrosion caused by fuel combustion products.
- Excellent oxidation stability reduces oil thickening during use and prolongs oil drain intervals.
- Low oil evaporation loss leads to improved fuel economy and reduces oil consumption and exhaust emissions.
- Meets the Euro III (ADR 79/01) emissions standard; suitable for engines running on fuels with up to 0.5% sulfur content.
- Good elastomer compatibility ensures longer gasket and seal life and reduces oil leakage.

## Typical data

<b>Sinopec Tulux T400 Diesel Engine Oil</b>			
SAE grade	10W-30	15W-40	20W-50
Kinematic viscosity, ASTM D 445			
cSt @ 100°C	10.69	15.07	17.97
Sulfated ash, wt%, ASTM D 874	1.3	1.36	1.12
Total base number, mg KOH/g, ASTM D 2896	9.41	10.5	9.48
Pour point, °C, ASTM D 97	-39	-34	-26
Flash point (COC), °C, ASTM D 92	218	218	225
Density @ 20°C, kg/l, ASTM D 4052	0.868	0.879	0.886

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

## Industry and OEM specifications

<b>Sinopec Tulux T400 Diesel Engine Oil meets the performance requirements of the following industry specifications:</b>	
ACEA	E2/B3/A2 (15W-40)
API Service Classification	Diesel: CH-4, CG-4,CF-4 and earlier HDDEO specifications
	Petrol/Gasoline: SJ
ASTM	D4485-2010
GB <sup>1</sup>	11122-2006 (CH-4)

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

<b>Sinopec Tulux T400 Diesel Engine Oil meets the performance requirements of the following OEM specifications:</b>	
Caterpillar	ECF-1-a (15W-40)
Cummins	CES 20076/71 (15W-40) CES 20078 (20W-50)
Mack	EO-M Plus (15W-40)
MAN	3271 (15W-40)
Mercedes Benz	228.1/228.3/229.1 (15W-40)
MTU	Type 1 (15W-40)
Renault	RD/RD-2 (15W-40)
Volvo	VDS-2 (15W-40)
ZF	TE-ML 07C (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.

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