

Product	Previous Name: Sinopec Diesel Engine Oil CJ-4/ SM 15W-40 Sinopec Diesel Engine Oil TULUX T600 15W-40
Summary	Product description Sinopec Diesel Engine Oil TULUX T600 15W-40 is formulated with high viscosity index, group 2 base oils and advanced low-SAPS (sulfated ash, phosphorus and sulphur) multifunctional additive technology to meet the requirements of a wide range of engine manufacturers. Suitable for use in heavy duty diesel engines, including modern low-emission diesel engines and those using exhaust after-treatment systems. Also suitable for use in petrol/gasoline engines requiring an API SM quality oil.

Applications

Sinopec Diesel Engine Oil TULUX T600 15W-40 is suitable for use in:

- Heavy duty diesel engines with EGR, DPF or other new technology low-emission systems, which require a low-ash lubricant in order to meet Euro III/IV/V and Australian ADR 80/00, 80/02 and 80/03 requirements.
- Heavy duty diesel engines using exhaust after-treatment systems.
- Heavy duty diesel engines operating continuously under very heavy or high load-factor conditions.
- On-highway application in heavy-duty vehicles operating under severe conditions, such as long-distance or urban traffic vehicles; also suitable in light-duty on-highway applications.
- Petrol/gasoline engines requiring an API SM quality oil.
- Suitable for mixed fleet use.
- Off-highway applications that use emission control systems.

Features and benefits

- Advanced low-ash additive system provides excellent protection for modern low-emission diesel engines equipped with EGR, DPF or other technologies.
- Formulated with high viscosity index, group 2 base oils, which provide improved oxidation control over conventional oils, reducing the formation of sludge and deposits and reducing oil thickening, thereby keeping the product in grade for longer and extending oil and engine life.
- Low oil evaporation loss leads to improved fuel economy and reduces oil consumption, exhaust emissions and engine wear.
- High shear stability ensures that viscosity is maintained, even under severe, high-temperature service conditions, providing greater engine wear protection and extended engine life.
- Excellent 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 acid neutralisation ability, together with TBN retention, provide rust and corrosion protection and prolong 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 start up at low temperature and protect against start-up wear.

Product Data Sheet

Typical data

Sinopec Diesel Engine Oil TULUX T600 15W-40	
SAE grade	15W-40
Kinematic viscosity, ASTM D 445	
cSt @ 40°C	112.6
cSt @ 100°C	15.16
Dynamic viscosity, CCS, ASTM D 5293	
cP @ -20°C	5,390
Mini-rotary viscometer (MRV), ASTM D 4684	
cP @ -25°C	16,900
High-temperature, high-shear viscosity (HTHS), ASTM D 4683	
cP @ 150°C	4.3
Viscosity index, ASTM D 2270	139
NOACK volatility, ASTM D 5800	9.5
Sulfated ash, wt%, ASTM D 874	1.0 max
Phosphorus, wt%	0.116
Sulfur, wt%	0.324
Zinc, wt%	0.129
Total base number, mg KOH/g, ASTM D 2896	9.0 min
Pour point, °C, ASTM D 97	-37
Flash point (COC), °C, ASTM D 92	230
Density @ 15°C, kg/l, ASTM D 4052	0.8740

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

Industry and OEM specifications

Sinopec Diesel Engine Oil TULUX T600 15W-40 meets the performance requirements of the following industry specifications:	
ACEA	E7-08, E9-08
API Service Classification	Diesel: CJ-4, CI-4 plus, CI-4 and earlier HDDEO specifications
	Petrol/Gasoline: SM, SL and earlier specifications
Sinopec Diesel Engine Oil TULUX T600 15W-40 holds the following formal industry approvals/licences:	
API Service Classification	CJ-4/SM

Product Data Sheet

Sinopec Diesel Engine Oil TULUX T600 15W-40 meets the performance requirements of the following OEM specifications:	
Caterpillar	Cat ECF-3, Cat ECF-2, Cat ECF-1
Cummins	CES 20081
Detroit Diesel	93K218, 93K215, 93K214
Deutz	DQC III-10-LA
Mack	EO-N, EO-M Plus, EO-M, EO-O Premium Plus
Man	3275
Mercedes Benz	MB 228.31
MTU	MTU Type 2.1
Renault	RLD-3
Volvo	VDS-4, VDS-3, VDS-2

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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