

# SINOPEC

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# SINOPEC

Premium Lubricants



Launch Tech Workshop Equip. Tr. Exclusive Distributor



## Product Description:

SINOPEC Tulux T 600 Diesel Engine Oil is a premium quality, heavy duty diesel engine oil formulated with fully synthetic base oil and an additive package containing advanced dispersants and detergents. It is suitable for use in high speed, four stroke cycle diesel engines fitted with exhaust gas after treatment system like DPF designed to meet EURO IV and EURO V and EUDO VI emission standards

## Application:

Heavy duty diesel engines fitted with modern exhaust gas after treatment systems, e.g. EGR, DPF or SCR. High Speed, Four stroke cycle diesel engines adopting other new technologies and meeting EURO IV, V & VI emission standards. Heavy duty diesel engines requiring an API CJ-4 quality oil. Gasoline engines requiring an API SM quality oil.

Note: Fuel sulfur levels above 15 ppm may impact on exhaust, after treatment system durability and / or oil drain interval.



**TULUX T600  
SERIES**

## 5W-40

Fully Synthetic  
Diesel Engine Oil

SAE Grade	5W-40	10W-40	15W-40
API	CJ-4/SM	CJ-4/SM	CJ-4/SM
cSt@100° C	14.31	12.8	15.16
Sulfated Ash , wt% ASTM D 874	0.99	1.0	1.0
TBN, mgKOH/g. ASTM D2896	10.8	12	9.5
HTHS , ASTM D 4683	3.83	-	4.3
Pour Point, °C, ASTM 97	-41	-34	-37
Flash Point ( COC ) °C ASTM D 92	228	230	230

## 10W-40

Fully Synthetic  
Diesel Engine Oil

## 15W-40

Fully Synthetic  
Diesel Engine Oil



## INDUSTRY & OEM specifications

ACEA	E7, E9, E7-08, E7-04, E9-08, E6-12, E4-12, E7-12, E9-12, E4-08
API Service Classification	Diesel: CJ-4, CI-4 Plus, CI-4, CH-4, CG-4, CF-4, CF & earlier HDDEO specifications Petrol/Gasoline: SM, SL & earlier specifications
ASTM	D4485-2010
Caterpillar	Cat-ECF-3, Cat-ECF-2, Cat ECF-1, ECF-1A
Cummins	CES 20081/78/77/76/72/71
JASO	DH-2
Deutz	DQC IV-10 LA, DQC III-10-LA
DDC	93K218

Detroit Diesel	E7, E9, DDC 93K214, 93K218, 93K215, 93K214
Mack	EO-O, EO-N & EO-M Premium Plus, EO-M Plus, EO-M, EO-N
MAN	M 3477, M 3573, M 3271-1, M 3277, M 3275, 3575
Mercedes Benz	228.31, 228.51, 228.5
MTU	Type 2.1, 3, 3.1
Volvo	VDS-2, VDS-3, VDS-4
Renault	RLD-2, RLD-3, RXD
GB	11122 - 2006 (CF)
Scania	LDF3 ( field trail running )





SAE Grade	15W40	15W-40	20W-50
API	20W-50	CI-4/SL	CI-4 /SL
cSt@100° C	14.8	14.15	19.00
Sulfated Ash , wt% ASTM D 874	1.37	1.61	1.62
TBN, mgKOH/g. ASTM D2896	11.6	10.4	9.5
HTHS , ASTM D 4683	3.83	-	4.3
Pour Point, °C, ASTM 97	-37	-36	-29
Flash Point ( COC ) °C ASTM D 92	222	234	244



SINOPEC Tulux T 500 Diesel Engine Oil is a premium quality, heavy duty diesel engine oil formulated with highly refined base oils and an advanced dispersant /detergent containing additive system. It is suitable for use in high speed, four stroke cycle diesel engines. Ensures durability of engines where exhaust gas recirculation (EGR) is used. Not suitable for engines with DPF

High Speed, Four stroke cycle diesel engines which require an oil of API CI-4+ or earlier quality. Such engines running on diesel fuels ranging in sulfur content up to 0.5% weight. Heavy Duty engines fitted with EGR or SCR systems highly rated diesel engines meeting with EURO IV, EURO V and Australian ADR 80/02 and 80/03 emission requirements. Most heavy duty diesel engines, except those fitted with diesel particulate filters.



# TULUX T500 SERIES

ACEA	E7
API Service Classification	Diesel: CI-4+, CI-4, CH-4, CG-4, CF-4, and earlier HDDEO Specifications Petrol/Gasoline: SL
Global	DHD-1
JASO	DH-1
Caterpillar	ECF-2, ECF-1A
Cummins	CES 20078(20W-50)/77/76(15W-40)/72/71
Detroit Diesel	93K214
Mack	ECO-N Premium Plus 03, EO-M Plus, EO-M

**Note:** 'GB' standards are the National Standards of the People's Republic of China

MAN	3275/3271
MTU	Type 1, Type 2
Mercedes Benz	228.3, 228.1
Volvo	VDS-2, VDS-3
Renault	RLD-2
GB	11122 - 2006 (CI-4), 11121-2006 (SL)
Scania	LDF3 ( field trail running )





SINOPEC Tulux T400 Diesel Engine Oil is a premium quality, heavy duty diesel engine oil formulated with highly refined base oils and an advanced dispersant /detergent containing additive system. It is suitable for use in high speed, four stroke cycle diesel engines. Ensures durability of engines where exhaust gas recirculation (EGR) is used. Not suitable for engines with DPF.

High Speed, Four stroke cycle diesel engines which require an oil of API CI-4+ or earlier quality. Such engines running on diesel fuels ranging in sulfur content up to 0.5% weight heavy Duty engines fitted with EGR or SCR systems highly rated diesel engines meeting with EURO iV , EURO V and Australian ADR 80/02 and 80/03 emission requirements. Most heavy duty diesel engines, except those fitted with diesel particulate filters.



# TULUX T400/300 SERIES

Diesel  
Engine Oil

Diesel  
Engine Oil

Diesel  
Engine Oil

Diesel  
Engine Oil

SAE Grade	15W40	20W-50	15W 40	20W-50
API	CH-4/SJ	CH-4/SJ	CF-4/SG	CF-4/SG
cSt@100° C	15.07	17.97	15.66	18.90
Sulfated Ash , wt% ASTM D 874	1.36	1.61	1.53	1.41
TBN, mgKOH/g. ASTM D2896	10.5	9.48	10.5	10.5
Density@20° C kg/l, ASTM D 4052	0.879	0.886		4.3
Pour Point, °C, ASTM 97	-34	-26	-30	-18
Flash Point ( COC ) °C ASTM D 92	218	225	240	234



## INDUSTRY & OEM specifications

API Service Classification	Diesel: CH-4, CG-4, CF-4, and earlier HDDEO Specifications
	Petrol/Gasoline: SJ, SG and earlier PCMO specs.
China FAW	SINOTRUCK
Xiamen Kinglong Motor	Dongfeng Motor
Hangzhou Engine	Dalian Diesel Engine
Shanghai Diesel Engine	Weifang Diesel Engine
Foton Motor	China North Vehicle Neoplan Bus
LONKING	XCMG

ZOOMLION	XGMA
Caterpillar	Type 1, Type 2
Cummins	228.3, 228.1
Mack	VDS-2, VDS-3
MAN	RLD-2
Mercedes Benz	11122 - 2006 (CI-4), 11121-2006 (SL)
MTU	LDF3 ( field trail running )
Renault	RD/RD-2 (15W-40W)
Volvo	VDS-2 (15W-40)



# GL-4 Medium Duty Automotive Gear Oil



## Product Description:

Sinopec GL-4 Medium Duty Automotive Gear Oil is blended with good quality mineral base stock and good quality additives. It may meet the lubrication requirements of gears in light/moderate duty vehicles.

## Application:

Sinopec GL-4 Medium Duty Automotive Gear Oil is suitable for use in:

- Lubrication of drive shaft (axle) and some transmission gearboxes in light/moderate duty vehicles.

## Features & Benefits:

- Excellent gear carrying capacity, effectively preventing gears from scratching and wear.
- Excellent oxidation stability, reducing formation of oxide.
- Excellent anti-rust property, effectively preventing gear unit from rusting.
- Excellent deforming property.



GL-4 Medium  
Duty Automotive  
Gear Oil

**75W-90**  
Medium Duty  
Gear Oil

**80W-90**  
Medium Duty  
Gear Oil

**85W-90**  
Medium Duty  
Gear Oil

**90**  
Medium Duty  
Gear Oil

**140**  
Medium Duty  
Gear Oil

## Typical Data:

Sinopec GL-4 Medium Duty Automotive Gear Oil					
SAE viscosity grade	75W-90	80W-90	85W-90	90	140
Kinematic viscosity, ASTM D 445					
cSt@100° C	15.06	16.38	17.85	18.07	27.12
Flash Point ( COC ) °C ASTM D 92	230	233	240	262	279
Pour Point, °C, ASTM 97	-42	-30	-21	-18	-12

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

## INDUSTRY & OEM specifications

Sinopec GL-4 Medium Duty Automotive Gear Oil meets the performance requirements of the following industry specifications:

API	GL-4
Q/SH	PRD 116-2008





# GL-5 Heavy Duty Automotive Gear Oil



## Product Description:

Sinopec GL-5 Heavy Duty Automotive Gear Oil is a range of high-performance gear oils, available in six viscosity grades, formulated with high-quality mineral base oils, and an advanced multifunctional additive system to meet the requirements of API GL-5. Designed for the lubrication of hypoid gear sets in passenger vehicles and commercial vehicles, where they offer excellent extreme pressure (EP) and anti-wear properties.

## Application:

Sinopec GL-5 Heavy Duty Automotive Gear Oil is suitable for use in:

- Axles, final drives and power take-off units in trucks, buses and off-highway vehicles used in various industries, including the construction, agricultural, forestry and mining sectors.
- Differentials, gear boxes and steering gears, where a hypoid oil is required.

## Features & Benefits:

- Excellent extreme pressure and anti-wear performance protects gears operating at high speeds and tooth pressures from abrasion, wear and welding, even in severe high-load and shock-loading conditions, extending component life.
- Excellent thermal and oxidation stability minimize the buildup of deposits and varnish, reducing wear, extending component life and ensuring longer oil life.
- Protection against corrosion and rusting extends equipment life, and reduces maintenance costs.
- Good low-temperature fluidity ensures optimum lubrication, even in cold start-up conditions, and prevents start-up wear.
- Good anti-foaming properties ensure optimum oil film thickness, protecting components against wear, and minimize oil leakage.
- Available in six viscosity grades to meet the specific needs of the application.
- Multi-grade oils can be used over a wider temperature range, and so can reduce the need for seasonal oil change thus reducing maintenance costs.
- Fully compatible with common seal materials, to extend seal life and prevent fluid leakage

GL-5 Heavy Duty  
Automotive  
Gear Oil

**75W-90**  
Medium Duty  
Gear Oil

**80W-90**  
Medium Duty  
Gear Oil

**85W-90**  
Medium Duty  
Gear Oil

**85W-140**  
Medium Duty  
Gear Oil

**90**  
Medium Duty  
Gear Oil

**140**  
Medium Duty  
Gear Oil

## Typical Data:

Sinopec GL-5 Heavy Duty Automotive Gear Oil						
SAE viscosity grade	75W-90	80W-90	85W-90	85W-140	90	140
Kinematic viscosity, ASTM D 445						
cSt@100° C	16.29	16.93	15.70	27.10	17.52	28.45
Viscosity index, ASTM D 2270	178	106	96	101	90	98
Copper corrosion, 3 hours @ 121°, ASTM D 130	1b	1b	1b	1b	1b	1b
Pour Point, °C, ASTM 97	-42	-30	-21	-16	-13	-15
Flash Point (COC) °C ASTM D 92	205	208	218	228	228	216
Density @ 20°, kg/l, ASTM D 4052	0.867	0.884	218	0.899	0.890	0.896

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



## INDUSTRY & OEM specifications

Sinopec GL-5 Heavy Duty Automotive Gear Oil meets the performance requirements of the following industry specifications:	
API	GL-5
GB <sup>1</sup>	13895-12
MIL	L-2105D

Sinopec GL-5 Heavy Duty Automotive Gear Oil meets the specifications:	
Man	342 Type M1
Sinopec GL-5 Heavy Duty Automotive Gear Oil holds the following OEM approvals:	
ZF	TE-ML 05A, TE-ML 19B, TE-ML 21A



# DOT 4 Synthetic Brake Fluid



## Product Description:

Sinopec DOT 4 Synthetic Brake Fluid is formulated using a blend of synthetic glycol ether and borate ester with selected additives. It meets the requirements of the DOT 4 specification to give excellent brake and clutch performance, avoiding the problems of vapor lock and brake fade.

## Application:

Sinopec DOT 4 Synthetic Brake Fluid is suitable for use in:

- Hydraulic disc, drum and anti-skid brakes and clutch systems of all passenger cars and commercial vehicles that require a DOT 4 or DOT 3 performance synthetic fluid.

**Caution:** do not use where a mineral oil-based fluid or a DOT 5 silicone-based fluid is required.

## Features & Benefits:

- High wet and dry equilibrium reflux boiling point (ERBP) minimizes vapor formation on braking at high-speed or high-load conditions and maintains the fluid's hydraulic properties, thus ensuring good braking performance.
- Borate ester in the formulation acts as a water scavenger and helps to maintain the ERBP during service, so maintaining the quality of braking performance as the fluid ages.
- Good fluidity, even at low temperatures, enables optimum braking performance.
- A buffered alkaline pH protects iron and steel-containing system components from acidic corrosion, ensuring long component life.
- Selected corrosion inhibitors protect aluminum, copper, zinc and tin-containing system components from corrosion, ensuring long life.
- Good compatibility with common seal materials used in braking systems minimizes fluid leakage and reduces component wear caused by inadequate lubrication, ensuring good braking performance.
- Excellent thermal and oxidation stability properties prevent fluid breakdown and deposit formation, maximizing fluid life and performance.
- Fully compatible with other brake fluids that meet the DOT 3 or DOT 4 specifications also compatible with DOT 5.1.

DOT 4 Synthetic  
Brake Oil

## Typical Data:

Sinopec DOT 4 Synthetic Brake Fluid	
Equilibrium reflux boiling point (ERBP), °C, ISO 4925	258
Wet ERBP, °C, ISO 4925	163
Kinematic viscosity, ISO 4925	
cSt @ -40°C	1200
cSt @ 100°C	2.14
pH, ISO 4925	8.7
Corrosion, 120 h @ 100°C, mass change of metal strips, mg/cm <sup>2</sup> , ISO 4925	
Tinned Iron	0.00
Steel	0.00
Aluminum	0.00
Cast Iron	0.00
Brass	0.5
Copper	0.04
Zinc	0.02
Effect on rubber, ISO 4925	Pass
Styrene Butadiene Rubber (SBR) @ 120°C	
Cup Diameter Increase, mm	0.70
Hardness Change, IRHD	6
Ethylene Propylene Diene Monomer (EPDM) @ 120°C	
Volume Change, %	3.25
Hardness Change, IRHD	3

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

## Industry & OEM Specifications

Sinopec DOT 4 Synthetic Brake Fluid meets the performance requirements of the following industry specifications:

FMVSS No. 116	DOT 4
GB <sup>1</sup>	12981-2012HZY4
ISO 4925	Class 4
SAE	J1704

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





# TO 4 Heavy Duty Transmission Fluid



## Product Description:

Sinopec TO-4 Heavy Duty Transmission Fluid is a range of products formulated with high-quality mineral oils and an advanced additive system. Improvements in the performance of heavy-duty equipment have been made possible by advances in technology and improved power-train designs, which in turn require higher performing fluids. Sinopec TO-4 Heavy Duty Transmission Fluid grades are specially designed to meet the demanding Caterpillar TO-4 specification.

## Application:

Sinopec TO-4 Heavy Duty Transmission Fluid is suitable for use in:

- Heavy-duty transmissions, gearboxes, final drives and hydraulic systems used in off-highway applications, where a Caterpillar TO-4 product is recommended.
- Other heavy-duty applications in the mining, construction, quarrying and agricultural industries.
- Manual, power-shift and automatic transmissions where Allison C-4 fluids (SAE 10W and 30 grades) are recommended.
- Mobile hydraulic equipment applications.
- Applications where paper and elastomer disc materials are used, and advanced frictional properties are required to extend clutch life and provide slippage control under severe heavy-load conditions.

## Features & Benefits:

- Excellent anti-wear properties and load carrying ability reduce gear wear and extend the life of heavy-duty transmission systems, gearboxes and final drives, leading to improved performance and reduced equipment downtime.
- Outstanding oxidation stability, thermal stability and detergency prevent the buildup of deposits and ensure long fluid life.
- Advanced frictional properties provide the clutch friction retention and slippage control required in equipment that uses modern paper or elastomer disc materials.
- Compatible with modern clutch materials and elastomers, to extend component life and prevent oil leakage.
- Effective control of foaming together with good air-release properties ensure smooth transfer of power and shifting performance, and reduce fluid loss in severe service conditions.
- Very good low-temperature properties protect against wear under cold start up and running conditions.

TO-4 Heavy Duty  
Transmission Fluid

## Typical Data:

Sinopec TO-4 Heavy Duty Transmission Fluid				
SAE viscosity grade	10W	30	50	50
Kinematic viscosity, ISO 4925				
cSt @ -40°C	41.5	98.0	196.5	196.5
cSt @ 100°C	6.7	11.2	18.4	18.4
Viscosity, Brookfield, ASTM D 2983				
cP@ -15°C	---	---	46,000	46,000
cP@ -25°C	---	38,000	---	---
cP@ -35°C	20,000	---	---	---
Viscosity index, ASTM D 2270	116	100	96	96
FZG gear scuffing, load stage, ASTM D 5182	12	12	12	12
Pour point, °C, ASTM D 97	-36	-30	-18	-18
Flash point (COC), °C, ASTM D 92	230	240	250	250

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

## Industry & OEM Specifications

Sinopec TO-4 Heavy Duty Transmission Fluid meets the performance requirements of the following industry specifications:		Sinopec TO-4 Heavy Duty Transmission Fluid meets the performance requirements of the following OEM specifications:	
Sinopec	Q/SH303 533-2012	Allison	C-4(SAE 10W and 30)
Sinopec TO-4 Heavy Duty Transmission Fluid holds the following OEM approvals:		Caterpillar	TO-4
ZF	TE-ML 03C(SAE 30) TE-ML 07F(SAE 30)	Komatsu	KES 07.868.1(SAE 30)
		API	CF, CF-2