

Product Data Sheet

Tomoil™ Engine Oil 5W-40 CK-4

Engine oil

Product description

Tomoil™ Engine Oil 5W-40 CK-4 represents a top-tier diesel engine oil, developed with high-quality base stocks and a carefully fine-tuned additive combination. Its composition ensures smooth adaptability with exhaust aftertreatment systems, including diesel particulate filters (DPFs), diesel oxidation catalysts (DOCs), and selective catalytic reduction (SCR).

Application

Tomoil™ Engine Oil 5W-40 CK-4 can be used in naturally aspirated and turbocharged heavy duty diesel engines, both in mobile and stationary equipment, where the API CK-4 service category and SAE 5W-40 viscosity grade are specified.

Features & Benefits

- Excellent wear resistance
- Outstanding high and low-temperature behavior
- High engine cleanliness
- Reliable lubrication
- Extended engine service life
- Optimal stability to aging

Typical Properties

Property	Unit	Test method	Typical value
Kinematic Viscosity at 100°C	cst	ASTM D 445	14.50
Kinematic Viscosity at 40°C	cst	ASTM D 445	87.50
Viscosity Index	-	ASTM D 2270	167
Flash Point, COC	°C	ASTM D 92	224
Pour Point	°C	ASTM D 7346	-39
TBN	mg KOH/g	ASTM D 2896	10.2
Sulphated Ash Content	%	ASTM D 874	1.0
Density at 15°C	g/ml	ASTM D 4052	0.853
CCS at -30°C	cP	ASTM D 5293	5100

Typical property characteristics are based on current production. Whilst future production will conform to TomoilTM specifications, variations in these characteristics may occur.

Performance claims

- API CK-4/SN
- ACEA E9
- MB-228.31
- MAN M3775
- Volvo VDS-4.5
- Mack EOS-4.5
- Renault Trucks RLD-4
- Cummins CES 20086
- Caterpillar ECF-3
- Detroit Diesel DDC 93K222
- Deutz DQC III-18LA

ALCO LLC recommends this product for vehicles with the following specifications:

- MB 228.3
- Ford WSS-M2C171-E
- Ford WSS-M2C171-F1
- MTU Type 2/2.1
- MAN M3677/M3777

Health, Safety & Environment

- **Health and Safety**

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website: www.tomoil.de

- **Protect the Environment**

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

Available pack sizes

- | | |
|------------------------|--------------------------|
| • 1 L Canister plastic | • 20 L Canister plastic |
| • 4 L Canister plastic | • 30 L Canister plastic |
| • 5 L Canister plastic | • 60 L Drum sheet metal |
| • 6 L Canister plastic | • 200 L Drum sheet metal |
| • 7 L Canister plastic | • 1000 L Container |

Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

Notes

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by ALCO LLC for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our sales specialists if you require any further information.