



TECHNICAL DATA SHEET

**SAE 15W-40
CK-4**

**PREMIUM SYNTHETIC
TECHNOLOGY HEAVY-DUTY
DIESEL ENGINE OIL**



PRODUCT DESCRIPTION

AUTOSTAR GERMANY 15W-40 CK-4 is a premium heavy-duty diesel engine oil formulated with advanced synthetic technology and high-performance additives. It delivers exceptional protection against wear, deposits, oxidation, and soot build-up under severe operating conditions. It provides superior thermal stability and maintains optimal oil pressure during prolonged high-load operations. Its robust formulation prevents bore polishing and piston ring sticking to ensure peak engine output.

Fully compatible with modern after-treatment systems like DPF, SCR, and EGR, it is designed for Euro V, Euro VI, and EPA Tier 4 engines. It helps extend oil drain intervals safely while enhancing overall fuel efficiency and engine service life. It is ideal for heavy-duty trucks, buses, construction equipment, and mixed fleets with both newer and older diesel engines.

KEY FEATURES

- | **Superior Engine Protection:** Protects against wear, deposits, and sludge under heavy loads.
- | **Excellent Soot Control:** Controls soot to prevent oil thickening and component wear.
- | **After-Treatment Compatible:** Low-SAPS formula fully protects DPF, SCR, and EGR systems.
- | **Extended Drain Intervals:** High oxidation stability and TBN retention enable longer drain intervals.
- | **Engine Cleanliness:** Controls high-temperature piston deposits to keep components clean.
- | **High-Temperature Stability:** Maintains a strong oil film under sustained severe heat and stress.
- | **Enhanced Durability:** Reduces friction and extends overall engine component lifespan.
- | **Reliable Startup Flow:** Delivers dependable startup lubrication to minimize initial wear. Mixed
- | **Fleet Versatility:** Fits both modern low-emission and legacy heavy-duty diesel engines.
- | **Heavy-Duty Ready:** Ideal for commercial transport, construction machinery, and mining equipment.



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RECOMMENDATIONS

Volvo VDS-4.5, Renault Trucks RLD-3, MACK EOS-4.5, Cummins CES 20086, Detroit Diesel DDC93K222, Caterpillar ECF-3, MB 228.31, DTFR 15C100, MAN M3775 / M3575, MTU Type 2.1, Deutz DQC III-18 LA, Scania Low Ash, DAF, IVECO FPT TLS CK4

Specifications

API CK-4/CJ-4, API SN; ACEA E9/E11/E7

TEST RESULT

Experiments	Experiment Method	Measurement Value
Appearance	VISUAL	Amber/Clear
Density @ 15,6°C*	ASTM D4052	109
Kinematic Viscosity @ 40°C*	ASTM D445	15,19
Kinematic Viscosity @ 100°C*	ASTM D445	146
Viscosity Index* C°	ASTM D2270	228
Flash Point*	ASTM D92	-38
Pour Point*	ASTM D6749	109
TBN (mg KOH/g)	ASTM D AT-500N	

The values shown are typical results and may vary by ±5% Due to normal manufacturing tolerances.

HEALTH & SAFETY

Health and Safety Information for Autostar Germany F-Tec 15W-40 CK-4

Precautionary Measures:

Storage and Handling: Store in a cool, dry, and well-ventilated area away from direct sunlight and ignition sources.



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Keep containers tightly closed when not in use to prevent contamination.

Personal Protection: Avoid skin and eye contact. Use protective gloves and safety goggles if there is a risk of exposure.

Wash hands thoroughly after handling.

First Aid Measures:

Skin Contact: Wash thoroughly with soap and water. If irritation persists, seek medical attention.

Eye Contact: Rinse immediately with clean water for at least 15 minutes. If irritation occurs, consult a doctor.

Inhalation: Move to fresh air if inhalation of mist or fumes occurs. Seek medical attention if symptoms persist.

Ingestion: Do not induce vomiting. Rinse mouth and seek medical advice immediately.

Environmental Safety: Avoid release into the environment. Used oil and empty containers should be disposed of in accordance with local regulations. Do not pour used oil into drains, soil, or watercourses.

Fire and Explosion Hazards: This product is not classified as flammable, but it can burn if exposed to an ignition source. Use foam, dry chemical, or carbon dioxide to extinguish fires. Avoid using water jets.

Spillage Procedures: Contain spills with sand, earth, or other suitable absorbents. Transfer absorbed material to a suitable container for proper disposal. Clean the affected area thoroughly.

Always refer to the product's Safety Data Sheet (SDS) for detailed health and safety guidelines. Follow local regulations and best practices when handling or disposing of this product.

Please refer to the safety data sheet, a copy of which is freely available to all of our customers.