

# RHINO SYNTHECH LONG DRAIN SAE 10W-40 API CJ-4 E9

## (Fully Synthetic Low SAPS Engine Oil – Maximum Drain Intervals)

### DESCRIPTION

RHINO SYNTHECH LONG DRAIN SAE 10W-40 API CJ-4 E9 is a full synthetic low SAPS engine oil formulated with unique long drain additive technology for extended drain up to 100,000 km<sup>2</sup> in the latest European diesel engines with modern low emission systems (including DPFs), in accordance with OEM specifications. It has natural multigrade characteristics and an exceptional ability to withstand very high temperatures. Its unshearable grade is guaranteed throughout the whole term of service. The ultra-thin protective oil film retains its excellent protective properties over a wide range of temperatures.

### APPLICATIONS

RHINO SYNTHECH LONG DRAIN SAE 10W-40 API CJ-4 E9 is designed for the latest low emission Euro 4 & Euro 5 European trucks and buses, especially those requiring a low SAPS lubricant. Thanks to its backward compatibility, this versatile engine oil can be used in both modern and older engines. It is compatible with emission control technology EURO IV, V and VI for trucks; as well as stage IIIB, IV and Tier 4i, 4f for heavy-duty off-road.

### PERFORMANCE FEATURES AND BENEFITS

Modern engines operate in constantly changing conditions, which impacts engine performance. RHINO SYNTHECH LONG DRAIN SAE 10W-40 API CJ-4 E9's unique additive technology adapts to these changing conditions to help maximize engine performance. It provides exceptional resistance to contaminants, and delivers outstanding performance when you run extended drains, even under severe operating conditions. Unique additive technology helps to maximize engine performance throughout extended drain intervals:

- Fights harmful acids, which form during engine operation, maintaining TBN reserve throughout the oil drain.
- Fights wear to critical engine components.
- Fights piston deposits even under severe operating conditions.

RHINO SYNTHECH LONG DRAIN SAE 10W-40 API CJ-4 E9 is recommended for DAF, IVECO, MAN, Mercedes-Benz, Renault, Scania and Volvo Euro 4 or Euro 5 engines for extended drain in accordance with their specifications. Actual oil drain depends on engine type, operating conditions, service history, use of on-board diagnostics and fuel quality. Always consult your manufacturer's handbook.

### RECOMMENDATIONS / SPECIFICATIONS

International Standards: ACEA E4, E6, E7, E9, API CJ-4, CI-4, JASO DH-2

Meets or exceeds: MB-Approval 228.51, 228.31, MAN M 3477, M3575, M 3271-1, Scania Low Ash, Volvo VDS-4, Cat ECF-3, Detroit Diesel 93K218, MTU Oil Category 3.1 and 2.1, Cummins CES 20081, Mack EO-O Premium Plus, Renault RLD-3, Deutz DQC IV-10 LA

### TYPICAL TECHNICAL PROPERTIES

Viscosity Grade, SAE J300	10W-40
PRODUCT CODE:	DEO-24092
Density at 15°C, g/ml, ASTM D4052	0.86
Cold Cranking Viscosity(CCS), mPa s, ASTM D5293	6400 @-25°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	95
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	14.3
Viscosity Index, ASTM D2270	155
Flash Point(COC), °C, ASTM D92	224
Pour Point, °C, ASTM D97	-39
Total Base Number (TBN), mg KOH/g, ASTM D2896	13.4
Sulfated Ash, wt%, ASTM D 874	0.96

Note: These characteristics are typical of current production. While future production will conform to RHINO's specification, variations in these characteristics may occur.

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\* supersedes all previous versions

Packing : 700 ml ,800 ml , 1L , 2L, 3L, 4L, 5L, 6.5L, 7L, 8L,16L,18L, 20L, 25L, 200L, 205L, 208L, 210L