



S-OIL SEVEN BLACK #9 LS

FULLY SYNTHETIC TOP TIER HEAVY DUTY DIESEL ENGINE OIL

Product Description

S-OIL SEVEN BLACK #9 LS is made by 100% synthetic base oil, suitable for all heavy-duty engines, non-turbocharged or turbocharged, in on/off highway service including the latest most OEM's EURO VI and older generation engines. And recommended for vehicles fitted with after-treatment devices including DPF, FGR and SCR to protect after-treatment devices and operator's maintenance cost.

Applications

- All turbocharged or normally aspirated diesel engines of vehicles operating in the most severe conditions
- Suitable for most OEMs including Benz, Volvo, Cummins for EURO IV, V and VI engines
- Light Trucks, RVs, SUVs, Heavy Trucks, Buses with diesel engines

Features and Potential Benefits

- Full synthetic base oil helps maintain oils initial conditions thanks to good stability and high viscosity index
- This low SAPS (Sulfated Ash, Phosphorus and Sulfur) engine oil provides long life for exhaust after-treatment devices including diesel particulate filter
- Exceptional anti-wear performance provides all parts of engine keep initial condition and helps the operator's maintenance cost saving
- Excellent detergent system helps keep pistons and other engine parts clean for long engine life
- Good thermal breakdown resistance ensures engine protection under modern engine's severe conditions

Performance Level

- | | | |
|--------------------------------|----------------------------|---------------------------|
| ○ ACEA : E4/E6/E7/E9 | ○ Volvo : VDS-4 | ○ Cummins : CES 20081 |
| ○ API : CJ-4 | ○ Mack : EO-O Premium Plus | ○ Caterpillar : ECF-3 |
| ○ Mercedes-Benz : MB 228.31/51 | ○ Renault Truck : RLD-3 | ○ DEUTZ : DQC IV-10 LA |
| ○ MTU : Category 2.1/3.1 | ○ MAN : M3271-1/3477/3575 | ○ Detroit Diesel : 93K218 |

Typical Properties

Test Items	Method	Unit	10W-40
Specific Gravity	ASTM D1298	-	0.860
Viscosity	ASTM D445	cSt	102.8
	ASTM D445	cSt	15.48
Viscosity Index	ASTM D2270	-	160
Flash Point	ASTM D92	°C	238
Pour Point	ASTM D97	°C	-40

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This lubricant used recommended and for the application for which it has been designed does not present any particular risk.
A material safety data sheet is obtainable via your commercial adviser.