

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, EGR and SCR etc. 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 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

< 5W-30 >

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|-----------------------|----------|--------------------------------------------------------------------|
| ○ ACEA : E6/E8/E9/E11 | ○ OEMs : | |
| ○ API : CK-4/CJ-4 | | MB 228.51, Volvo VDS-4.5, Renault RLD-4, Detroit Diesel DDC93K222, |
| ○ JASO : DH-2 | | Cummins CES 20086, Mack EO-S-4.5, MAN M3677, Scania LDF-4 |

< 10W-40 >

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| ○ ACEA : E4/E6/E7/E8/E9/E11 | ○ OEMs : | |
| ○ API : CK-4/CJ-4 | | MB 228.51/52/61. Scania LDF-4 & Scania Low Ash. MAN M3777, M3677, |
| ○ JASO : DH-2, DH-1, DL-0 | | M3775, M3575, M3477, M3271-1, M3271-3, M3977. Volvo VDS-4.5. Mack EO-S 4.5. Renault RLD-4. Cummins CES 20087 & CES 20086. Detroit DFS 93K223 & Detroit DFS 93K222. Deutz DQC IV-18 LA. MTU Oil Category 3.1 & MTU Oil Category 2.1. Caterpillar ECF-3. Voith Class B. |

Typical Properties

Test Items	Method	Unit	5W-30	10W-40
Specific Gravity	ASTM D1298	-	0.855	0.861
Viscosity	ASTM D445	40°C	73.2	100.2
		100°C	12.17	15.07
Viscosity Index	ASTM D2270	-	164	158
Flash Point	ASTM D92	°C	230	242
Pour Point	ASTM D97	°C	-36	-36

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S-OIL SEVEN BLACK #9 LS
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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.