



S-OIL SEVEN BLACK LS

FULLY SYNTHETIC TOP TIER HEAVY DUTY DIESEL ENGINE OIL

Product Description

S-OIL SEVEN BLACK LS is made by 100% synthetic base oil, suitable for all heavy-duty engines, non turbo-charged or turbo-charged, in on and off-highway service including latest most OEM's EURO VI and older generation engines. And recommended for vehicles fitted with after treatment devices including diesel particulate filters (DPFs) 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, VI engines
- Light trucks, RVs, SUVs, Heavy trucks, Buses with diesel engines
- Particularly suited for latest general EURO VI to older generation engines fitted with after treatment devices including DPF, EGR and SCR

Features and potential benefits

- Full synthetic base oil* helps maintain oils initial conditions thanks to good stability and high viscosity index
*) S-OIL manufactures high quality API Group III base oil named "ULTRA-S" and provides it globally
- This low SAPS (Sulfated Ash, phosphorus, 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 : ACEA E4/E6/E7/E9 | ○ Volvo : VDS-4 | ○ Cummins : CES 20081 |
| ○ API : API CJ-4 | ○ Mack : EO-O Premium Plus | ○ Caterpillar : ECF-3 |
| ○ Mercedes-Benz : MB 228.31/228.51 | ○ 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	-	0.8600	
Viscosity	40°C	ASTM D445	cSt	102.8
	100°C	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 as 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.