



SHELL ROTELLA[®] SB SYNTHETIC BLEND

High performance synthetic blend engine oils

Product Description

Shell Rotella[®] SB Synthetic-Blend are high performance heavy-duty engine lubricants designed for use in diesel engines. These synthetic blend multigrade engine oils meet the warranty and service requirements of virtually all four-stroke cycle diesel and many gasoline engine manufacturers. This includes the latest advanced diesel engine designs resulting from tightened emission requirements and requiring advanced oil performance.

Shell Rotella SB Synthetic-Blend contain synthetic base oil components to impart special performance qualities critical for both on-highway and off-highway service applications, especially where all-season use and enhanced fuel economy performance is desired. They are highly recommended for extended cold climate operation.

Applications

- Large over-the road diesels trucks especially where high operating temperatures may cause excessive deposits and contribute to oil breakdown
- Engines operating in colder climates
- Engines equipped with exhaust gas recirculation (EGR)
- Smaller diesel and gasoline fueled light trucks and cars
- Heavy equipment used for construction, mining or quarry operations
- New advanced design low emission diesel engines (as well as older engines) from:
 - Caterpillar
 - International
 - Volvo
 - Cummins
 - Mack
 - Detroit Diesel
 - Mercedes

Features/Benefits

- Performance which exceeds all the warranty requirements of today's severe, high-performance, fuel efficient, low-emission four-stroke cycle diesel engines
- Exceptional low temperature properties to help speed cold starts
- Enhanced oxidation stability, especially in higher temperatures
- Exceptional deposit control
- Exceptional control of valve train wear
- Outstanding engine protection and durability
- Outstanding soot handling ability



- Extended oil drain capability
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Approvals and Recommendations

Shell Rotella SB Synthetic-Blend	<u>10W-40</u>	<u>10W-30</u>	<u>0W-30</u>
<u>SAE GRADE</u>			
API CI-4 PLUS CI-4, CH-4, CG-4, CF-4, CF	X	CI-4	CH-4
• API SL, SJ, SH	X *	X	SJ
• ACEA E3 and E5	X	-	-
• Caterpillar ECF-1	X	X	
• Cummins CES 20078, 20077, 20076; 20071	X	X	-
• Mercedes 228.3	X	-	-
• Mack EO-N Premium Plus 03,	X		
• Volvo VDS-3, VDS-2 and VDS	X		-

Note : * suitable for use where required.

Typical Properties of Shell Rotella SB Synthetic-Blend

	Test Method	SAE Grade		
		10W-40	10W-30	0W-30
Product Code		55566	55565	50193
Viscosity:				
@ -25°C cP	D 5293	6400	6600	
@ 100°C, cSt	D 445	13.5	12.1	11.3
Flash Point, °C (°F)	D 92	207 (405)	207 (405)	210
Pour Point, °C (°F)	D 97	-33 (-30)	-36 (-35)	-45
Neutralization No. TBN-E	D 2896	9.5	10.7	8.0
Sulfated ash, wt%	D 874	1.3	1.4	1.0

Handling & Safety Information

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.equivashellmsds.com>. For more information and availability, call **1+800-782-7852** or visit the World Wide Web: <http://www.shell-lubricants.com> or <http://www.rotella.com>.