



SHELL RIMULA[®] OILS

High ash level oils for diesel engines

Product Description

Shell Rimula[®] Oils are high ash level oils formulated for excellent diesel engine performance. They meet four-stroke cycle diesel engine manufacturers' warranty and service performance requirements for naturally-aspirated and turbo charged engines in many kinds of service. For more than 35 years, **Shell Rimula[®]** Oils have enjoyed an excellent reputation as premium Caterpillar Series 3/API CD-plus and CF quality engine oils. **Shell Rimula[®]** Oils are available in SAE viscosity grades 10W, 30, and 40.

Applications

- whenever API CF and CD-plus quality engine oils are recommended
- off-highway diesel fleets where a single grade oil is desired i.e. construction, stationary installations, marine, mining, forestry, and agriculture
- crankcase lubricant in four-stroke cycle diesel engines especially with high sulfur fuels (where fuel sulfur levels exceed 0.5 percent weight) of such major engine manufacturers as
 - Allis Chalmers (Fiat Allis)
 - John Deere
 - International Harvester
 - Caterpillar
 - Detroit Diesel
 - Massey-Ferguson
- Caterpillar transmissions and gear boxes where TO-2 fluids are recommended (SAE 10W and 30 grades)
- hydraulic applications (SAE 10W)
- Allison C-4 transmission fluid applications (SAE 10W and 30 grades)

Note: for engines containing silver bearing surfaces use **Shell Caprinus XR** oils.

Features/Benefits

- high detergency-dispersancy protects against engine sludge and varnish deposits
- high TBN retention for extra protection in severe service
- resistance to oil thickening especially in higher fuel sulfur applications
- excellent rust and bearing corrosion control
- demonstrated excellent performance in Detroit Diesel laboratory engine and truck field tests even though their sulfated ash contents of 1.65 percent weight does not meet the ash level restrictions of the Detroit Diesel 7SE270 specification

Approvals and Recommendations

- Allison C-4 specification (SAE 10W and 30 grades)
- API CF
- API Service SE and SD (obsolete) gasoline engine performance requirements
- Caterpillar TO-2 test (friction and friction retention characteristics) (SAE 10W and 30 grades)
- Caterpillar 3600 Series engine lubricant
- Caterpillar Series 3/API CD-plus
- Obsolete military specifications MIL-L-2104C, MIL-L-2104B, MIL-L-21260B, Type II, and MIL-L-45199B

Typical Properties of Shell Rimula Oils

	Test Method	SAE Grade		
		10W	30	40
Product Code		54801	54803	54804
Gravity, °API	D 1298	28.5	26	25
Viscosity				
@ 40°C, cSt	D 445	38.8	105	146
@ 100°C, cSt	D 445	6.1	10.9	14.4
Viscosity Index	D 2270	110	97	95
Flash Point, °C(°F)	D 92	204 (400)	234 (455)	228 (445)
Pour Point, °C (°F)	D 97	-36 (-35)	-21 (-10)	-18 (-5)
Neutralization No. TBN-E	D 2896	12.0	12.0	12.0
Sulfated Ash, %wt	D 874	1.65	1.65	1.65

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/>.