

PRODUCT DATA SHEET

Royal Diesel Supreme Ultra Heavy Duty Diesel Engine Oil



PRODUCT DESCRIPTION:

Royal Diesel Supreme Ultra (15W40) oils are formulated for extended drain service in the most demanding applications requiring API Service Category CJ-4/SN, as well as, the latest OEM's (Original Equipment Manufacturers) for the following engine specification manufacturer technologies: EGR (Exhaust Gas Re-circulation), ACERT (Advanced Combustion Emission Reduction Technology), DPF (Diesel Particulate Filter) technology, and other exhaust after treatment devices. At the same time, they continue to provide long drain service in conventional engines by promoting longer engine life and reduced component wear by providing higher oil film thickness, better wear performance and improved oxidation control at higher temperatures. API CJ-4 delivers improved soot-handling and shear stability performance in all engines.

KEY FEATURES:

- Meets the needs of today's high-performance, fuel efficient, low emission diesel and gasoline engines.
- Enhanced oxidation stability, valve train wear and deposit control.
- Excellent protection of modern engines through industry leading.
- Most advanced corrosion protection.

CUSTOMER BENEFITS:

- Superior protection of engine hardware throughout the drain interval.
- Better cold flow properties for easier starting in colder weather.
- Overall increased engine protection
- More effectual shear stability for better viscosity control.
- Reduction of high temperature deposits
- Improved fuel economy through the reduction of soot related viscosity.
- Enhanced durability through the reduction of soot related viscosity increase.

PERFORMANCE CATEGORIES:

API CJ4	API CI-4 PLUS	API CI-4	API CH-4
API SN	API SM	CUMMIS CES 20081	MACK EO-O PREPIUM PLUS
DETROIT DIESEL DDC 93K218	CAT ECF-3	CAT ECF-2	CAT ECF-1-A
ACEA E9-08 ISSUE 2 (2010)	ACEA E7-4 ISSUE 2 (2007)	MB-APPROVAL 228.31	MAN 3575
MTU TYPE 2.1	VOLVO VDS-4	VOLVO VDS-3	RENAULT TRUCK RLD-3
DEUTZ DQC III-10 LA	MACK EO-O PP-07	Daimler V2009.1 MB228.31	

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PACKAGING:

Totes, Drums, Pails, Gallons, Quarts

Typical Properties

Royal Diesel Supreme Ultra		
Product Number	127CJ	Test Method
SAE Grade	15W40	-
Viscosity@40°C cSt	117.0	ASTM D445
Viscosity@100°CcSt	14.99	ASTM D445
Viscosity Index (VI)	132	ASTM D2270
API	30.22	
Specific Gravity	0.875	
Density	0.874	
Pour Point °C	-30	ASTM D97
Lbs/Gal	7.287	
Flash Point °C	196	ASTM D92
Color	<7.0	ASTM D1500

Typical Properties are typical of those obtained with normal production tolerance and do not constitute essentially a specification. Variations that do not affect product performance are to be expected during normal manufacture and at different blending locations. The information contained herein is subject to change without notice.

Health and Safety:

When used for its intended application, this product is not expected to have any adverse health implications. For complete information on safe handling, as well as physical and chemical characteristics please refer to the Material Safety Data Sheet (MSDS) found on our website, www.royalmfg.com, or call 918-584-2671. Do not use this product for purposes other than its intended use. Please be responsible to the environment when disposing of used product.