

PRODUCT DATA SHEET

Royal Diesel Supreme Plus Multigrade Heavy Duty Diesel Engine Oil



PRODUCT DESCRIPTION:

Royal Diesel Supreme Plus oils have been reformulated to meet the stringent requirements of today's engines. These multigrade oils meet and/or exceed the performance requirements of API CI-4/SL, CH-4, CG-4, CF-4, CF and SJ. In addition, the oils exceed the Allison C-4, MIL-L-2104F, MIL-L-2104G as well as the older API classifications CE, CD-II, SH, MIL-L-46152E, Mack EO-K/2, EO-L and EO-L Plus.

The same premium oil is available in a **Royal Diesel Supreme Plus 10W30** grade for better low temperature performance in colder climates, better fuel economy compared to the **Royal Diesel Supreme Plus SAE 15W40** and to meet the demands of the OEM's (CG-4, CF-4, CF and SJ) who recommend lower viscosity grades.

Royal Diesel Supreme Plus 20W50 contains the same high quality base stocks and performance additives found in the CH-4 approved product. It can be used for both gasoline and diesel engine service requiring a CF-4, CF, SH or SJ oil.

The **Royal Diesel Supreme Plus 20W50** is an excellent choice for high temperature and heavy loads.

KEY FEATURES:

- Excellent cold weather properties
- Extended oil drain capability
- Enhanced engine life

CUSTOMER BENEFITS:

- Meets the needs of today's high-performance, fuel efficient, low emission diesel and gasoline engines
- Better cold flow properties for easier starting in colder weather
- Minimizes valve and combustion chamber deposits
- More effectual shear stability for better viscosity control

APPLICATIONS:

- General Motors-Allison C-4
- Allis Chalmers
- J.I. Case
- Caterpillar
- Cummins 27006 (10W30, 15W40)
- John Deere
- JCB
- Deutz
- Volvo VDS (15W40)
- Mack E0-M, EO-M Plus (15W40)
- Navistar International
- Komatsu
- Mercedes 228.1
- ACEA E2/B3/A2
- Detroit Diesel (15W40 in Series 40,50,55,60 and all other four stroke engines)

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PACKAGING:

Totes, Drums, Pails, Gallons, Quarts

Typical Properties

Royal Diesel Supreme Plus Multigrade					
Product Number	106C	107	108G	109	Test Method
SAE Grade	10W30	10W40	15W40	20W50	-
Viscosity@40°C cSt	65.31	97.54	116.1	170.7	ASTM D445
Viscosity@100°CcSt	9.868	13.4	14.75	18.9	ASTM D445
Viscosity Index (VI)	134	145	133	123	ASTM D2270
API	29.91	29.7	28.75	28.22	
Specific Gravity	0.8767	0.8778	0.8829	0.8859	
Density	0.8762	0.8773	0.8825	0.8855	
Pour Point °C	-30	-27	-24	-24	ASTM D97
Lbs/Gal	7.301	7.31	7.354	7.378	
Flash Point °C	196	198	210	221	ASTM D92
Color	<7.5	<7.5	<7.5	<7.5	ASTM D1500

Typical Properties are typical of those obtained with normal production tolerance and do not constitute 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.