



Product Data Sheet



Diesel Supreme Plus

Heavy Duty Diesel Engine Oil

Diesel Supreme Plus motor oils have been reformulated to meet the stringent requirements of today's engines. These multigrade oils meet or exceed the performance requirements of API CI-4/SL, CH-4, CG-4, CF-4, CF, CF-2, SH and SJ.

Product Features:

- Excellent cold weather properties
- Extended oil drain capability cutting down on costs
- Enhanced engine life and durability by utilizing better oil protection

Customers 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
- Robust durability for improved shear stability with better viscosity control

Meets or Exceeds Specifications:

CAT ECF-1-a
Mack EO-M Plus
ACEA A2-96 Issue 3 (2002)
ACEA E2-96 Issue 5 (2007)
Cummins CES 200676
Cummins CES 20072
Cummins CES 20071

MB-Approval 228.1
MAN 271
MTU Type 1
Volvo VDS-2





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Typical Properties

Diesel Supreme Plus 15W40

Product Number	106	107	108	109	Test Method
SAE Grade	10W30	10W40	15W40	20W50	-
API	29.91	29.7	28.75	28.22	-
Specific Gravity	0.8767	0.8778	0.8829	0.8859	ASTM D4052
Lbs/Gal	7.301	7.31	7.354	7.378	-
Density	0.8762	0.8773	0.8825	0.8855	-
Flash Point °C	196	198	210	221	ASTM D92
Pour Point °C	-30	-27	-24	-24	ASTM D97
Color	<7.5	<7.5	<7.5	<7.5	ASTM D1500
Viscosity					
@100°C cSt	9.868	13.4	14.75	18.9	ASTM D445
@40°C cSt	65.31	97.54	116.1	170.7	
Viscosity Index	134	145	133	123	ASTM D2270

These properties are typical of the current production. Variations that do not affect product performance are to be expected depending on blending and manufacturing locations. The information contained herein is subject to change without notice.

Health and Safety:

This product is unlikely to have any adverse health implications or safety hazards when used for its intended application. Avoid contact with skin, use resistant gloves when handling used oil. If skin comes in contact wash immediately with soap and water. For complete information on safe handling and product characteristics please refer to the Material Safety Data Sheet (MSDS) found on our website. www.royalmfg.com or call (918)-584-2671.

Packaging options:



Quarts



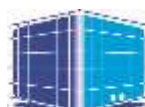
1 Gal Jugs



5 Gal Pails



55 Gal Drums



275/330 Gal Totes



>2000 Gal Bulk

