



CountryMark.

LUBRICANTS

Product Data Sheet

CountryMark Diesel Engine Oil

Description

CountryMark Diesel Engine Oil is a multi-grade all season engine lubricant designed for diesel engines operating in agricultural, commercial, and industrial applications.

CountryMark Diesel Engine Oil is designed for high-speed, four stroke engines designed to meet current on-highway exhaust emission standards. CK-4 oils are compounded for use in all applications with diesel fuels ranging in sulfur content up to 500 ppm (0.05% by weight). They are effective at sustaining emission control system durability where particulate filters and other advanced after- treatment systems are used. Optimum protection is provided for control of catalyst poisoning, particulate filter blocking, foaming, oxidative thickening, and viscosity loss due to shear.

The American Petroleum Institute (API) has declared API CF and API CF-2 categories obsolete for mono grade oils. CountryMark will continue to offer a complete line diesel engine oil including mono-grade for older diesel applications without the API certification mark.

Features & Benefits:

- Excellent cold flow properties provide faster lubrication during cold starts, maximizing engine life
- Improved oxidation, rust, and deposit control protection throughout the oil drain interval
- Designed for high-speed, four-stroke engines that meet 2007 model year on-highway exhaust emission standards

Application:

The multi-grade oil is formulated to meet or exceed a variety of specifications and engine manufacturers' requirements, which include:

- API CK-4, CJ-4/CI-4 Plus, API SN
- CAT ECF-3
- JASO DH-2
- FORD WSS-M2C171-F1
- Detroit Diesel 93K222
- ACEA E-9-2012, E7
- Mack EOS-4.5, EO-O Premium Plus
- Cummins CES 20086
- Volvo VDS-4.5

Health & Safety:

A material safety data sheet is available upon request. Used motor oil contains combustion by-products, which may be harmful. Avoid prolonged or repeated skin contact. Wash clothing and exposed areas with soap and water. Don't pollute - return used oil to a collection center.

Typical Properties:

Multi-Viscosity Grade Engine Oil:

SAE Viscosity Grade	15W-40	10W-30
API Service	CK-4, CJ-4, CI-4/SN	CK-4, CJ-4, CI-4
Viscosity @ 100°C, cSt	15.36	12.47
Viscosity @ 40°C, cSt	109.5	82.43
Viscosity Index	148	149
Specific Gravity @ 60°F	0.8737	0.863
Pour Point, °C	-45	-45
Sulfated Ash, %m	0.91	0.92
TBN	10.2	10.6
HTHS @ 150° C, mPa's	4.2	3.6

Mono-Viscosity Grade Engine Oils:

SAE Viscosity Grade	10W	30	40	50
Viscosity @ 100°C, cSt	5.79	12.07	14.43	18.73
Viscosity @ 40°C, cSt	31.02	100.3	133.4	190.5
Viscosity Index	131	111	107	110
Pour Point, °C	-42	-33	-33	-33
Sulfated Ash, % wt.	.85	1.0	1.0	1.0
TBN (D 2896)	7.1	7.2	7	7.2

The typical properties listed reflect the general characteristics of the product and are not manufacturing specifications. Normal batch-to-batch variations should be expected.

CountryMark Advantage™ Lubricants
For additional information contact
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