DURAGARD® IS A REGISTERED TM OF ADVANTAGE DIST. LLC, ROCH., MN 55904 **Product Code:** DURCK415/40XX

DURAGARD®

DIAMOND PLATE® SAE 15W-40 CK-4 ENGINE OIL

ADVANCED TECHNOLOGY, PREMIUM SYNTHETIC BLEND LUBRICANTS

DURAGARD® **DIAMOND PLATE® SAE 15W-40 CK-4 ENGINE OIL** is an extreme performance (HTHS) high-temperature, high-shear viscosity synthetic blend oil formulated to meet the significantly improved specifications for 2017 and newer engines while being fully compatible for 2016 and prior engines that previously used CJ-4. CK-4 will deliver more oxidization protection for hotter, heavy-duty engines, minimizing acid formation, deposits and viscosity increase, promoting reduced wear, improved shear stability, greater oxidation stability, and foam prevention.

DURAGARD® **DIAMOND PLATE® SAE 15W-40 CK-4 ENGINE OIL** is a new formula that is specifically engineered for use in mixed fleets, gasoline and diesel. CK-4 has a select additive package for exceptional performance at high temperatures and heavy loads with improved engine protection over previous CJ-4 formulas. The advance in oil technology standards establishes an oil quality specification that helps protect today and tomorrow diesel engines.

DURAGARD® **DIAMOND PLATE® SAE 15W-40 CK-4 ENGINE OIL** is a direct replacement for CJ-4 using the same viscosity grades in Synthetic or Synthetic Blend oil types providing protection for all future engine designs, while improving protection of current and previous engines. CK-4 and CJ-4 can be mixed and should have no detrimental impact to engines. However, it is recommended to completely change over to CK-4 oil by using a hot drain of the CJ-4 oil to help minimize residual oil and achieve full benefits of the new oil. Fleets using CJ-4 should implement a secondary storage for CK-4 or completely empty a CJ-4 tank before filling with Duragard® Diamond Plate® SAE 15W-40 CK-4 Engine oil.

Customer Benefits with DURAGARD® DIAMOND PLATE PROTECTION®

* **Meets or Exceeds warranty requirements** of engine manufacturers that require a type **API CK-4/SN** premium synthetic blend **SAE 15W-40** motor oil.
* Exceeds performance of current API CJ-4 oils.
* (HTHS) High-temperature, High-shear viscosity.
* Improved shear stability
* More oxidization protection for hotter, heavy-duty engines
* Minimizes acid formation
* Reduced deposits
* Extended drain intervals
* Backwards compatible for all engines currently requiring CJ-4
* Meets current 2017 and newer specifications requiring CK-4
* Meets FORD WSS-M2C171-F1 2017 & prior specifications.

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Application Specifications:

DURAGARD® DIAMOND PLATE® SAE 15W-40 CK-4 ENGINE OIL

This product meets, or exceeds the requirements similar to the following manufacturers and global specifications:

2017 and Newer Compatibility

API CK-4 SN

Cummins 20086
Detroit Diesel 938K222
Ford WSS-M2C171-F1
Mack EOS-4.5
MAN 3575
MTU 2.1
Renault RLD-4
Volvo VDS-4.5

2016 and Prior Backwards Compatibility

API CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, CF-2, CF
API SM, SL, SJ, SH
ACEA E9, E7, E5, E3, E2
Agco (Deutz Allis)
Allison C-4
Case/IH
CAT ECF-1-a/ECF-2/ECF-3/EC1/EC2
Chrysler MS-6395-G
Cummins NTC 400, CES20081/78/77/76/72
Dept. of Defense (CID)A-A-52039A/A-A-52036A
Detroit Diesel 7SE270, type 1 & 2
Detroit Diesel 93K218, 93K215, 93K214
EMA LRG-1
Ford WSS-M2C171-D
Global DHD-1/DH-1
GM 6094-M
John Deere
JASO DH-2
Mack PREM+07, PREM+03, EO-O/N/M/L, EO-K2
MAN 3275, 270
Massey Ferguson
Mercedes 228.31, 228.3
MIL-L-46152/MIL-L-2104F 2/MIL-PRF-2104G
MTU Type I, Type II
Navistar TSI-85-6
Renault RLD
White/Volvo VDS-4/3/2

Consult your manufacturer's specifications for information and use.

Product Containers Available:

Bulk * 55 gal. * 30 gal. * 5 gal. pails * 2.5 gal./2pk * 1 gal./3pack

Typical Physical Specifications:

SAE Grade 15W-40

Product Code: DURCK415/40SYNBLxx

INSPECTION INFORMATION	TEST METHOD	TYPICAL VALUE
Gravity, °API	ASTM D287	30.99
Specific Gravity @60°F (15.6°C)	ASTM D4052	0.8708
Viscosity @ 40°C cSt	ASTM D445	114.3
Viscosity @ 100°C cSt	ASTM D445	15.92
Viscosity Index	ASTM D2270	149
Pour Point °C (°F)	ASTM D5950	-39 °C (-38 °F)
Cold Cranking Simulator at (°C), cP	ASTM D5293	4100 (-20)
High Temperature / High Shear Vis at 150 °C, cP	ASTM D5481	4.3
Color	ASTM D1500	3
Zinc, wt. %	ASTM D5185	0.127
Phosphorus, wt. %	ASTM D5185	0.115
Calcium, wt. %	ASTM D5185	0.105
Sulfur, wt. %	ASTM D4951	0.32
Magnesium, wt. %	ASTM D5185	0.1
Molybdenum, wt. %	ASTM D5185	0.0066
Sulfated Ash, wt. %	ASTM D874	0.99
Nitrogen, wt. %	ASTM D4629	0.105
Pumping Viscosity at (°C), cP	ASTM D4684	21,600 (-25)

Typical test data average values only, minor variations which do not affect product performance are to be expected during normal manufacturing.

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READ ENTIRE SDS BULLETIN FOR HANDLING AND SAFETY INFORMATION

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