



PRODUCT DATA SHEET

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GIBRALTAR 15W/40 SUPER S-3 LX

Gibraltar 15W/40 Super S-3 LX is a premium heavy-duty diesel engine oil surpassing the requirements of the recently released API (American Petroleum Institute) CK-4 specification, Mack EO-4.5, Caterpillar ECF-3, Cummins 20086, Detroit Diesel 93K222 and Volvo VDS-4.5 specifications.

API CJ-4 was developed to address the additional requirements of 2007 engines employing Diesel Particulate Filters and Diesel Oxidation Catalysts. These engines are designed to be used with Ultra Low Sulfur Diesel (15 ppm sulfur) in order to meet tougher EPA emissions standards. Gibraltar Super S-3 LX is formulated to give outstanding performance in these newer engines while being fully backward compatible for use in pre-2007 engines. While many engine oils designed to meet the new CJ-4 category feature reduced TBN in order to meet the strict sulfur and ash limits mandated, Gibraltar Super S-3 LX maintains a robust detergency level so it can be used in pre-2007 engines and off-road equipment using 500 ppm fuel without concern of TBN depletion.

Gibraltar Super S-3 LX provides users with the following benefits:

- Fully compatible with Diesel Particulate Filters and Diesel Oxidation Catalysts
- Reduced Oil Consumption
- Increased Valve Train and Bearing Protection
- Outstanding Shear Stability for "stay-in-grade" performance
- Excellent soot control
- Robust Detergency (TBN) Level

The end result for equipment owners is: longer lubricant life and longer engine life.

APPLICATIONS/SPECIFICATIONS

API CK-4, CJ-4/SM
Mack EOS 4.5
Cummins CES 20086
Caterpillar ECF-3
Detroit Diesel 93K222
Mercedes Benz 228.31
Volvo VDS-4.5
ACEA E9-16
Allison C-4

TYPICAL INSPECTIONS

Sulfated Ash, % Weight	1.0
Viscosity, cSt @ 100°C	15.5
TBN, ASTM D-2896	10.1
Calcium, % Weight	0.105
Magnesium, % Weight	0.1
Zinc, % Weight	0.127
Phosphorus, % Weight	0.115
Molybdenum	0.066