

ROYAL OIL CO.

SPECIALTY LUBRICANTS

ROYAL SHIELD

Premium Moly Infused Engine Oil (CJ-4, SL, SM)

Synthetic Blend

Proprietary Moly Formula

Wear/Friction Reducing

Extended Component life

Excellent Detergent Package

Clean/Keep Clean Chemistry

Exceptional Thermal Stability

ROYAL SHIELD is a complete game changer for hardworking diesel engines. Molybdenum disulfide, or “moly” will inherently bond itself to metal surfaces, providing an incredibly strong layer of protection. With its unique functionality to attaches itself to metal while both repelling and attracting other moly particles, creating an incredibly slick surface layer to reduce friction and wear. With tighter tolerances and higher operating temperatures in today’s engines ROYAL SHIELD can provide remarkable performance improvements in every day operations and for the long term life of the engine. Add to this impressive technology, an industry best TBN package, soot control chemistry and top notch thermal stability...this is a must have, moly chemistry and superior oil engineering.

“Royal Shield is the result of over engineering and its spectacular in all aspects. When you take an industry leading engine oil and a premium blended molybdenum disulfide formula, the results are second to none and worth the investment.”



ROYAL SHIELD

Product Specifications

Meets and/or exceeds MIL-L-2104E, MIL-L-46152E, CID AA 52039, Caterpillar TO-2, Caterpillar ECF-3, Caterpillar ECF-2, Cummins CES 20077, Cummins CES 20078, Cummins CES 20081, Detroit Diesel Power Guard 93K214, Power Guard 93K218, Mack EO-N Premium Plus, Mack EO-N Premium Plus 03, Mack EO-O Premium Plus 07, Navistar, Allis Chalmers, Series 3, GM6094M, Ford M2C153E, M2C171C, M2C171D, ACEA E9/E7/E5/ E3/B3/A3, MAN 271, MAN 3275, Mercedes Benz MB 228.31 and MB229.1, MTU Type 1, MTU Type II, Volvo VDS-2, Volvo VDS-3, Volvo VDS-4, Global DHD-1, Chrysler MS-6395-D, Renault RLD-3, Jaso DH-2, Allison C4, A.P.I. CF-4, CG-4, CH-4, CI-4, CI-4 Plus, CJ-4, SH, SJ, SL, SM. AVAILABLE IN MULTIPLE VISCOSITY GRADES.

ASTM TEST METHOD	TESTS	15W40
D287	API Gravity	27/29
D287	Specific Gravity at 600F, Typical	.87
D-92	Flash Point, OF, COC Minimum	4000°F (2040 C)
D-97	Pour Point, Typical	-300°F (-340 C)
D-5293	Viscosity @ -250C Cold Cranking Simulator	7000 max
D-5293	Viscosity @ -300C Cold Cranking Simulator	7000 max
D-4684	Viscosity @ -250C Mini Rotor Viscosimeter-TPI	25,000
D-4684	Viscosity @ -300C Mini Rotor Viscosimeter-TPI	25,000
D-446	Viscosity @ 1000C, cSt, Typical	15.5
D-446	Viscosity @ 400C, cSt, Typical	119.0
D-2270	Viscosity Index	150
D-874	Sulfated Ash, Wt. % Maximum	0.99%
D-2896	Total Base Number, mg KOH/g	14
D-892	Foam Tendency/Stability:	
	Sequence I	0/0
	Sequence II	0/0
	Sequence III	0/0
	Calcium, Wt. %, Typical	0.13
	Zinc, Wt. %, Typical	0.13
	Nitrogen, Wt. % Typical	0.23
	Magnesium, Wt. % Typical	0.09

Sharing lubricant knowledge and delivering the highest quality products, two things we promise our customers. The difference will change how you view,

Family owned and operated since 1926.



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