

# ROYAL OIL CO.

SPECIALTY LUBRICANTS

## **SUPREME ULTRA HD**

**Premium Engine Oil (CJ-4, SL, SM)**

**Synthetic Blend**

**Superior Detergent Package**

**Cleans/Eliminates Deposits**

**Excellent TBN Retention**

**Superior Film Strength**

**Exceptional Thermal Stability**

*“With the evolution of the modern diesel engines, so evolved our engine oil needed to protect them. With diesel engines and their exhaust systems more complex, problematic and costly than ever, Supreme Ultra HD should be where you turn.”*

SUPREME ULTRA HD is Royal’s answer to the requirements of a CJ-4 oil, designed primarily for post 2007 diesel engines.

It was during this time that additive restrictions were placed on oil manufacturers, and engines saw dramatic changes with the incorporation of EGR and particulate filtration systems. Through all of the changes, SUPREME ULTRA HD emerged as the premier oil for the time, still boasting an industry high 14 TBN and exceptional extended drain capabilities.

At the end of the day, the advanced formulation and superior raw materials help us deliver the most advanced and robust CJ-4 oil in the industry. Offering exceptional soot control, cleanliness, wear protection, base number retention as well as both thermal and viscosity stability.



# ***SUPREME ULTRA HD***

## **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 93K218, 93K214, Power Guard 93K217, 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, 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.

<b>ASTM TEST METHOD TESTS</b>	<b>15W/40</b>	<b>10W/30</b>
D287 API Gravity	27/29	27/29
D287 Specific Gravity at 600F, Typical	.87	.86
D-92 Flash Point, OF, COC, Minimum	4000F. (2040C.)	3850F. (1960C.)
D-97 Pour Point, Typical -	300F. (-340C.)	-350F. (-370C.)
D-5293 Viscosity @ -250C, Cold Cranking Simulator cP	7000 max.	---
D-5293 Viscosity @ -300C, Cold Cranking Simulator cP	---	7000 max.
D-4684 Viscosity @ -250C, Mini Rotor Viscosimeter-TP1 cP	25,000	---
D-4684 Viscosity @ -300C, Mini Rotor Viscosimeter-TP1 cP	---	21,500
D-446 Viscosity @ 1000C, cSt, Typical	15.5	12.4
D-446 Viscosity @ 400C, cSt, Typical	119.0	82.0
D-2270 Viscosity Index 150 150		
D-874 Sulfated Ash, Wt. %, Maximum	0.99%	0.99%
D-2896 <b>Total Base Number</b> mg KOH/g	<b>14</b>	<b>14</b>
D-892 Foam Tendency/Stability:		
Sequence I	0/0	0/0
Sequence II	0/0	0/0
Sequence III	0/0	0/0
Calcium, Wt. %, Typical	0.13	0.13
Zinc, Wt. %, Typical	0.13	0.13
Nitrogen, Wt. %, Typical	0.23	0.23
Magnesium, Wt. %, Typical	0.09	0.09

Sharing lubricant knowledge and delivering the highest quality products, two things we promise our customers. The difference will change how you view, purchase and utilize greases and oils from here forward.

*Family owned and operated since 1926.*



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