LUBRA-MAX™ PLUS

ENGINE OIL IMPROVER OF CHOICE FOR ALMOST EVERY APPLICATION

Provides Superior Equipment Protection for:

- Fleet Vehicles
- Transportation
- Construction
- Mining
- Waste Management
- Bus Terminals
- Marine
- Agriculture
- Logging
- Industrial Manufacturing
- Federal, State and Local Agencies

9:1 Mix Ratio

Boosts Wear Protection

Lubra-Max Plus **is engineered to boost wear protection and extend drain intervals of conventional motor oils*.**

Inhibits Acid Build-Up

Lubra-Max Plus **raises TBN (Total Base Number) by 5 points to extend acid neutralization while maintaining low ash.**

Reduces Surface Contaminant Build Up

Lubra-Max Plus **contains *Detergents* which keeps deposits from adhering to rings, pistons and liners, and *Dispersants* to prevent the build-up of sludge, varnish, soot and gum by keeping the micro-contaminants in suspension.**

Improves Oil Performace

Lubra-Max Plus **improves oil performance with EGR, ACERT, ASET, and Turbo charged equipment.**

Reduces Ring Sticking and System Wear

Lubra-Max Plus **contains *Oxidation Inhibitors* which increase effective oil life and reduce the formation of acid and sludge that can form on rings and pistons.**

Compatible With Most Motor Oils

Lubra-Max Plus **is compatible with synthetic, synthetic blend, mineral based, and API CJ-4 motor oils.**

Excellent High & Low Temperature Performance

Lubra-Max Plus **provides better thermal stability for higher temperature operations, increases V.I. number to provide stable viscosity over a wide temperature range, and lowers Pour Point to provide superior cold cranking and oil pumpability at low temperatures.**

*Always use oil analysis to establish new drain intervals

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ISO 9001 QUALITY ASSURANCE

Additives	Benefits
Acid Neutralizers	Provide LUBRA-MAX MG with a Total Base Number rating of 14 to prevent the formation of sulfuric acid and sludge. LUBRA-MAX MG outlasts conventional oils by up to 100%.
Friction Reducers	Plate "hot spots" (high friction surfaces) such as valve trains, rocker arms, rings and cylinder liners with a tough barrier film that prevents two-surface wear and reduces operating temperatures.
Anti-Wear Additives	Form a protective boundary lubrication plating on valves, rings, cylinders, rocker arms and bearings to prevent metal-to-metal contact.
Shear Stabilizers	Increase surface viscosity and improve shear stability to carry heavier loads, withstand extreme pressures and prevent shock impact.
Dispersants	Keep sludge, carbon, soot, varnish and gum suspended in the oil and carry them to the filter. Prevent deposits on high-contact surfaces.
Detergents	Prevent carbon and soot formation in ring grooves and upper piston areas at high temperatures to decrease blowby into the crankcase.
Oxidation Inhibitors	Increased concentration slows down the oxidizing process to extend oil life and reduce sludge.
Corrosion Inhibitors	Neutralize corrosive acids and seal moisture contaminants away from engine components (including copper-lead bearing metals).
Rust Inhibitors	Provide a polarized barrier shield to protect internal surfaces from flash rusting and chemical deterioration.
Viscosity Index Improvers	Maintain full viscosity over a wider temperature range to ensure full protection in fluctuating conditions. Eliminate the need to switch oil grades in different seasons.
Pour Point Depressants	Lowers the oil's effective operating temperature. Reduces thickening and increases low-temperature pumpability to help prevent dry start wear in cold winter.

PHYSICAL PROPERTIES

TEST	LUBRA-MAX PLUS
Specific Gravity (API)	0.897
Lb.Weight/Gallon	7.53
Viscosity, cSt @100 °C	107.27
cSt @40 °C	1081.1
SUS @210 °F	
SUS @100 °F	
Viscosity Index	158
Flash Point (°F)	410
TBN Boost	+5
Pour Point (°F)	
4 Ball Wear (mm)	0.28
Zinc %	0.4
Sulfated Ash %	

Lubra-Max Plus Meets or Exceeds the Following Performance Requirements

(WHEN ADDED AT A 9:1 MIX RATIO)

- **API Service Classification: CJ-4, CI-4, CI-4 Plus, CH-4, and SM for gasoline engines**
- **ACEA E&-04 (2004)**
- **MIL-PRF-2104G, CID-A-A-52306A, and CID-A-A-52039B**
- **Mack EO-O Premium Plus**
- **MTU Type 2, MAN 3275**
- **Caterpillar ECF-1-A, ECF-2, ECF-3**
- **CES 20081, Renault RVI RLD-3**
- **Daimler Chrysler MB228.31, MB228.3**
- **Volvo VDS-4**
- **Detroit Diesel DDC 93K218**

IDEAL FOR USE:
Compatible with any motor oil used in gasoline or diesel engines including multi-grade, single weight, semi-synthetics and pure synthetics.

DO NOT USE:
Not compatible with 2-cycle gasoline engines that mix oil with fuel.