

IMPERIUM, API CI4 PLUS / SL, SAE 15W40

EXTRA HIGH PERFORMANCE DIESEL ENGINE OIL

IMPERIUM API CI4 PLUS / SL IS AN EXTRA HIGH-PERFORMANCE SEMI SYNTHETIC, DIESEL ENGINE OIL THAT PROVIDES EXCELLENT LUBRICATION OF TODAY'S DIESEL ENGINES PROMOTING EXTENDED ENGINE LIFE. THIS EXTRA HIGH PERFORMANCE HAS BEEN PROVEN IN THE FIELD IN A WIDE VARIETY OF INDUSTRIES, APPLICATIONS, AND MIXED FLEETS.

IMPERIUM API CI4 PLUS / SL IS FORMULATED FROM HIGH PERFORMANCE BASE OILS AND A SUPERIOR BALANCED ADDITIVE SYSTEM TO PROVIDE OPTIMUM ENGINE PERFORMANCE IN MODERN DIESEL AND GASOLINE ENGINES AS WELL AS OLDER MODELS.

FEATURES & BENEFITS

- TBN RESERVES FOR DEPOSIT CONTROL AND ACID NEUTRALISATION.
- HIGH THERMAL & OXIDATION STABILITY THAT REDUCED SLUDGE BUILD UP, DEPOSITS AND VISCOSITY INCREASE.
- STAY IN PROPER GRADE SHEAR STABILITY FOR WEAR PROTECTION AND VISCOSITY CONTROL.
- ADVANCED DETERGENCY / DISPERSANT FOR CLEANER ENGINES AND LONGER COMPONENT LIFE.
- IMPROVED SOOT HANDLING FOR IMPROVED VISCOSITY
- CONTROL AND USED OIL PUMP ABILITY.
- EXCELLENT LOW TEMPERATURE PROPERTIES FOR START-UP WEAR PROTECTION.
- COMPONENT COMPATIBILITY FOR LONGER GASKET AND SEAL LIFE.

APPLICATION

IT IS DESIGNED AS PER REQUIREMENT OF ENGINE OIL FOR THE USE IN COMMERCIAL VEHICLE DIESEL ENGINES WHERE API CI-4, CH-4, CG-4, CF-4, CF, CD, CC, MACK EO-N, MACK EO-M, MACK EO-M+, MACK EO-L, MACK EO-L+, CAT ECF-1 CUMMINS CES 20078, 2007, 20076, 20071, 20072, ACEA E3-96#4,

E4-99#2, E5-02, AND MERCEDES BENZ 228.5, 228.3, 228.1, DETROIT DIESEL 75E270, MY TYPES 1 & 2, MAN 271 & 3277, SCANIA LDF, VOLVO VDS-3, JASO DH-1, GLOBAL DHD-1, VOLVO VDS/VDS-2, CAT TO 2, ALLSION C4, NAVISTAR TSE-97-12-03, AMONG OTHERS IS REQUIRED.

SPECIFICATION OF IMPERIUM, API CI4 PLUS / SL, SAE 15W40

PARAMETERS	TYPICAL PROPERTIES
Viscosity, ASTM D 445	
cSt @ 40 Deg C	99.23
cSt @ 100 Deg C	13.52
Viscosity Index, ASTM D 2270	136
Sulphated Ash, wt%, ASTM D 874	1.35
Total Base mg KOH/g, ASTM D 2896	10
Pour Point, Deg C, ASTM D 97	-29
Flash Point, Deg C, ASTM D 93	218
Density @ 30 Deg C Kg/L, ASTM D 4052	0.8585
Colour ASTM D 1500	L2

THESE CHARACTERISTICS ARE TYPICAL OF CURRENT PRODUCTION.

WHILST FUTURE PRODUCTION WILL CONFORM TO KINSLEE SPECIFICATION, VARIATIONS IN THESE CHARACTERISTICS MAY OCCUR.

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