

CRUISER ADVANCE PLUS

Multigrade diesel engine oil

Description

CRUISER ADVANCE PLUS is a high quality new generation lubricant for diesel engines. It is formulated to meet the demands of the latest development in diesel engine technology.

CRUISER ADVANCE PLUS is also a multigrade lubricant formulated with VII (Viscosity Index Improver) agents, which makes it extremely stable and gives an excellent viscosity consistency. It provides optimum lubrication at both high and low temperatures.

CRUISER ADVANCE PLUS provides effective protection against deposit build up, wear, corrosion, foaming on pistons during high temperature operation. It also possesses excellent oxidation stability and soot control.

CRUISER ADVANCE PLUS is available in two variants, **CRUISER ADVANCE PLUS 15W-40** and **CRUISER ADVANCE PLUS 20W-50**.

Application

CRUISER ADVANCE PLUS is primarily recommended for use in high RPM diesel engines, especially the latest direct injection low emission diesel engines and pre-combustion chamber diesel engines requiring a lubricant that meets CI-4/SL standards.

CRUISER ADVANCE PLUS can also be used in diesel engines requiring an API service lower than CI-4/SL lubricant. This new generation diesel engine API service CI-4 Lubricants meets the technical specifications of leading diesel engine manufacturers such as Caterpillar, Isuzu, Toyota, MTU, MAN, MACK, Mitsubishi, Scania, Volvo.

Specification Meets

CRUISER ADVANCE PLUS meets API service CI-4/SL, CH4/SJ, Mack EO-M+, Mack EO-N, ACEA E7-12, MB 228.3, MAN M3275, Renault RLD-2, Volvo VDS-3, Cummins CES 20076/77/78, CAT ECF-2, Deutz III, JASO DH-1, Global DHD-1, DDC93K215, Allison C-4 standards.

Advantages

CRUISER ADVANCE PLUS provides the following benefits in providing extra overall protection for diesel engines:

- ▶ Effective high-temperature piston deposit control
- ▶ Effective wear protection and soot control to prevent lubricant thickening
- ▶ Maximum foam control
- ▶ Multi-grade characteristics provide optimum viscosity during high and low temperature operation
- ▶ Suitable for use in both diesel and gasoline engines

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Typical Data of CRUISER ADVANCE PLUS

Characteristics	Unit	CRUISER ADVANCE PLUS		Test Method
		15W-40	20W-50	
Color		L 3.0	L 3.0	ASTM D 1500
Density @ 15 °C	kg/L	0.8750	0.8929	ASTM D 4052
Kinematic Viscosity @ 40 °C	cSt	109.5	160.9	ASTM D 445
Kinematic Viscosity @ 100 °C		15.5	19.3	
Viscosity Index		150	137	ASTM D 2270
Flash Point (COC)	°C	232	230	ASTM D 92
Pour Point	°C	-27	-18	ASTM D 97
CCS Viscosity @ °C	cP	5360 (-20)	5337 (-15)	ASTM D 5293
Sequence I : 24 °C	mL	0/0	0/0	ASTM D 892
Sequence II : 93.5 °C		10/0	10/0	
Sequence III : 24 °C after 93.5 °C		0/0	0/0	
Total Base Number	mg KOH/g	11.11	10.8	ASTM D 2896

* the typical characteristic mentioned represent mean values