

# 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, CH-4, CG-4, CF-4, CF, SL, Mack EO-M+, Mack EO-N, ACEA E7-12, MB 228.3, MAN M3275, Renault RLD-2, Volvo VDS-3, Cummins CES 2076/77/78, CAT ECF-1A, 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 3.5	L 3.5	ASTM D 1500
Density @ 15 °C	kg/L	0.8738	0.8875	ASTM D 4052
Kinematic Viscosity @ 40 °C	cSt	116.84	175.60	ASTM D 445
Kinematic Viscosity @ 100 °C		15.38	19.00	
Viscosity Index		138	123	ASTM D 2270
Flash Point (COC)	°C	232	242	ASTM D 92
Pour Point	°C	-27	-30	ASTM D 97
CCS Viscosity @ °C	cP	5373	8132	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	11.242	11.250	ASTM D 2896

\* the typical characteristic mentioned represent mean values