## **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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Page 1/2 ver. 220916

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### **Typical Data of CRUISER ADVANCE PLUS**

Characteristics	Unit	CRUISER ADVANCE PLUS		Test Method
		15W-40	20W-50	rest Method
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	сР	5373 (-20 °C)	8132 (-15 °C)	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

<sup>\*</sup> the typical characteristic mentioned represent mean values

Page 2/2 ver. 220916