

CRUISER HDA

Diesel Engine Oil

Uraian

CRUISER HDA adalah pelumas berkualitas tinggi yang diformulasikan khusus untuk alat berat yang digunakan pada mesin diesel tugas berat yang dilengkapi dengan supercharged atau turbocharged dan mesin gasoline. Pelumas ini dirancang khusus untuk mesin diesel berkecepatan tinggi yang umumnya digunakan pada alat berat, armada transportasi, dan peralatan pabrik.

Aplikasi

CRUISER HDA direkomendasikan untuk pelumasan mesin diesel maupun mesin bensin, baik yang bertenaga turbo atau tidak seperti pada kendaraan, peralatan berat, pada peralatan pabrik dan mesin kapal (maritim).

Spesifikasi

CRUISER HDA meets API service CF/CF-2/SF, ACEA E2-96, MB Sheet 228.0, MAN 270, MTU Type 1, Caterpillar TO-2, Allison C-4.

Keuntungan

CRUISER HDA diformulasikan dari bahan baku berkualitas tinggi dengan indeks viskositas yang tinggi. Mengandung aditif detergen-dispersan, antioksidan, anti-korosi, anti-aus, dan anti-busa untuk memberikan perlindungan tambahan pada mesin.

Description

CRUISER HDA is a high quality heavy duty lubricant for use turbocharged diesel engines. The lubricant is especially formulated for high speed diesel engine commonly used in heavy equipment, transportation fleets and stationery machinery.

Application

CRUISER HDA is recommended for lubrication of both diesel engines and gasoline engines, supercharged, or turbocharged, in vehicles, heavy equipment, stationary machinery and marine applications

Specification Meets

CRUISER HDA meets API service CF/CF-2/SF, ACEA E2-96, MB Sheet 228.0, MAN 270, MTU Type 1, Caterpillar TO-2, Allison C-4.

Advantages

CRUISER HDA is formulated from high quality raw materials with a high viscosity index. It contains detergent dispersant, anti-oxidant, anti-corrosion, anti-wear, and anti-foaming additives to provide additional engine protection.

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Typical Data of Cruiser HDA

Characteristics	Unit	10W	30	40	50	Test Method
Colour		L2.5	L2.5	L3.0	L4.0	ASTM D1500
Density at 15°C	Kg/L	0.8701	0.8901	0.8968	0.9020	ASTM D4052
Kinematic Viscosity @ 40°C	cSt	40.90	91.98	149.80	215.65	ASTM D445
Kinematic Viscosity @ 100°C		6.67	11.05	14.92	18.97	
Viscosity Index		117	106	99	98	ASTM D2270
Flash Point, (COC)	°C	222	238	240	248	ASTM D92
Pour Point	°C	-36	-24	-21	-15	ASTM D97
CCS, @-25°C	cP	4152	-	-	-	ASTM D5293
Sequence I, 24°C	ml	0/0	0/0	0/0	0/0	ASTM D892
Sequence II, 93.5°C		10/0	10/0	10/0	10/0	
Sequence III, 24°C after 93.5°C		0/0	0/0	0/0	0/0	
Total Base Number	mg KOH/g	11.28	11.37	11.48	11.71	ASTM D2896

*the typical character mention present mean values