



Typical Chemical Characteristics

Product:

Hercules SHPD SAE 15W-40

Description:

EN:

High quality mineral lubricant with high quality additives for high speed and for super high performance diesel engines (**SHPD**). It is recommended for engines without particulate filters, and for engines equipped with **EGR** or with **SCR** NOx reduction system where the manufacturer suggests **Full SAPS** technology oil. Its synthesis provides "stay in grade" viscosity stability after mechanical exhaustion, engine's parts cleanliness from carbon deposits, excellent wear control, soot handling etc. It meets **Euro I, Euro II, Euro III, Euro IV & Euro V** emission requirements even under severe conditions.

EL:

Εξαιρετικής ποιότητας πρωτογενές λιπαντικό για μεγάλα διαστήματα αλλαγών και κυρίως για πετρελαιοκινητήρες υψηλής απόδοσης (**SHPD**). Η ειδική του σύνθεση περιορίζει την δημιουργία καταλοίπων και διατηρεί καθαρά τα μέρη του κινητήρα ακόμα και στις πιο αντίξοες συνθήκες λειτουργίας. Μπορεί να χρησιμοποιηθεί σε κινητήρες **Euro I, Euro II, Euro III, Euro IV & Euro V** που είναι εφοδιασμένοι με συστήματα **EGR & SCR** και που προτείνεται η χρήση **Full SAPS** ορυκτελαίων.

DE:

Hochqualitatives mineralisches Schmiermittel mit Additiven hoher Qualität für Hochgeschwindigkeits- und Super-Hochleistungs-Dieselmotoren (**SHPD**). Empfohlen für Motoren ohne Partikelfilter und für Motoren mit **EGR** oder **SCR** NOx Reduktionssystem, für welche der Hersteller Öl der **Full SAPS** - Technologie empfiehlt. Seine Zusammensetzung bietet Viskositätsstabilität "Stay in grade" auch nach mechanischer Beanspruchung, saubere Motorenteile ohne Karbonablagerungen, hervorragenden Verschleißschutz, Russkontrolle, usw. Es erfüllt die Emissionskriterien von **Euro I, Euro II, Euro III, Euro IV & Euro V** sogar unter harten Bedingungen.

RU:

Высококачественное минеральное моторное масло с добавлением высококачественных присадок для высокоскоростных и ультрамощных дизельных двигателей (**SHPD**). Рекомендуется для двигателей без сажевых фильтров, а также для двигателей, оборудованных системами рекуперации тепла ОГ и системами очистки от оксидов азота на основе селективного каталитического восстановления. Формула этого масла обеспечивает соответствие вязкости нормам после механического истощения, отсутствие нагара на деталях двигателя, отличную стойкость к износу, вывод сажи и увеличенные межсервисные интервалы и т.д. Отвечает требованиям к выбросам стандартов **Евро I, Евро II, Евро III, Евро IV и Евро V** даже при эксплуатации в суровых условиях.

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Characteristics:

Property	Method	Unit	15W-40
Specific Gravity 15°C	ASTM D 1298	kg/L	0,887
Viscosity at 100°C	ASTM D 445	cSt	14,2
Viscosity at 40°C	ASTM D 445	cSt	117
Viscosity Index	-	-	122
Pour Point	ASTM D 97	°C	<-25
Flash Point	ASTM D 92	°C	>210
Total Base Number	ASTM D 2896	mgKOH/g	10,7
Color	-	-	Crystal gold
Cold Cranking Simulator	ASTM D 5293	mPa-s	6.740 @ -20°C

Specifications:

ACEA: E7-12,
 API: CI-4/SL,
 Mercedes Benz p228.3,
 MAN 3275, Volvo VDS-3,
 MTU Category 2, Renault RLD-2,
 Deutz DQC III-10 & Cummins 20076/77

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