

UNITED ECO-MAX PLUS

Product Description

Semi Synthetic Diesel Engine Oil specially designed to meet new Proposed Category 11 (PC-11) specifications for heavy-duty-vehicle. A new category is split into two separate and distinct subcategories: one that preserves historical heavy-duty oil criteria and one that provides additional fuel efficiency and economy benefits for modern diesel engine technology while maintaining durability. This oil improves engine performance criteria that are being addressed including oxidation stability, shear stability and aeration.

It is specially formulated with synthetic blend technology to ensure optimal performance under severe operating conditions, reducing fleet management downtime and maintenance.

Applications / Benefits

- * Better protects engines, minimizes oil consumption
- * Synthetic base, inherent thermal-stability and anti-oxidation property
- * Particularly suited for the modern diesel engine
- * Provides better fuel economy and minimizes GHG emissions

Typical Characteristics

Test Description	Method	Unit	10W30	10W40	15W40
SAE Viscosity Grade	SAE J 300	-			
Density @ 15 °C	ASTM D 4052	kg/L	0.865	0.870	0.874
Flash Point	ASTM D 92	°C	220	220	220
Pour Point	ASTM D 97	°C	-33	-33	-27
Kinematic Viscosity @ 40°C	ASTM D 445	cSt	76.2	97.2	115.1
Kinematic Viscosity @ 100°C	ASTM D 445	cSt	11.58	14.6	15
Viscosity Index	ASTM D 2270	-	145	156	135
TBN	ASTM D 2896	mgKOH/g	9.8	9.8	9.8

Specifications, Approvals & Recommendations

* API	CK-4
* API	SN IN SAE 10W40 & SAE 15W40
* ACEA	E9
* ACEA	E7
* ALLISON	TES 439 IN SAE 15W40
* CATERPILLAR	ECF-3
* CUMMINS	CES 20086
* CUMMINS	CES 20081
* DETROIT DIESEL	DFS 93K222
* DETROIT DIESEL	DFS 93K218
* DEUTZ	DQC III LA
* FORD	WSS M2C171-F1
* JASO	DH-2
* MACK	EOS-4.5
* MACK	EO-O PREMIUM PLUS
* MACK	EO-N
* MAN	M3775
* MERCEDES BENZ	228.31
* MTU	CATEGORY 2.1
* RENAULT	RLD-4
* VOLVO	VDS-4.5

Reference No.
5142G23CK4REV1

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