

DIESEL ENGINE OIL (SYNTHETIC)

SAE 10W-40 API CI-4/SL

MG Oil Diesel Engine Oil is blended from selected base stocks and a high technology core additive package, it is truly a universal heavy duty diesel oil meeting the stringent Global DHD-1 specification that brings the European ACEA standard and American API performance together for the first time. This means **MG Oil Diesel Engine Oil** is simply the top player for both the modern North American engines and the top-tier West European engines.

APPLICATIONS / BENEFITS :

- * Minimizes oil consumption.
- * Satisfying most diesel engine OEM oil demand.
- * Exceeds the highest API gasoline engine performance as well
- * Neutralizes acids from high sulfur fuel.
- * Particular suitable for the latest diesel engine equipped with EGR.

PERFORMANCE STANDARD :

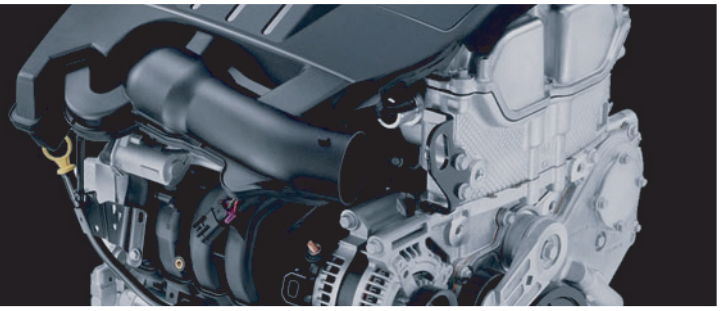
- * API CI-4/SL
- * Mack EO-L / EO-M / EO-M Plus
- * ACEA A3 / B4 / E3 / E5 / E7
- * Mercedes-Benz 228.3, 229.1
- * VW 505
- * JASO DH-1

TYPICAL CHARACTERISTICS :

TEST DESCRIPTION	METHOD	TYPICAL RESULTS
SAE Viscosity Grade	SAE J 300	10W-40
Specific Gravity @ 15 °C	ASTM D 4052	0.86
Flash Point, °C	ASTM D 92	218
Pour Point, °C	ASTM D 97	-25
Kinematic Viscosity @ 40°C	ASTM D 445	111.6
@ 100°C	ASTM D 445	15.1
Viscosity Index	ASTM D 2270	141
TBN, (mgKOH/g)	ASTM D 2896	10
Color	ASTM D 1500	<3.0

ESIONAL SDN. BHD. (876294-T)

No. 21-2, Jalan Apollo CG U5/CG, Bandar Pinggiran Subang, Seksyen U5, 40150 Shah Alam, Selangor Darul Ehsan, Malaysia. | Tel : 603-7846 2108/ 603-7846 2109 | Fax : 603-7842 2107 | Email : marketing@esional.com | Web : www.esional.com | Copyright 2013-Esional Sdn. Bhd. , All rights reserved. All specifications are subject to change without prior notice. Please contact our sales team for latest information of our products and services.



DIESEL ENGINE OIL (SYNTHETIC)

SAE 15W-40 API CH-4/SJ

MG Oil Diesel Engine Oil is formulated using a robust additive package and selected base stocks to deliver real performance in today's heavy-duty diesel engines, especially those fitted with modern features like Super-charger and Turbo-charhes. Its high ability to neutralize acidic by-products from the diesel combustion ensures minimum corrosion of the engine parts throughout the lengthy oil drain interval.

APPLICATIONS / BENEFITS :

- * Minimizes oil consumption.
- * Protects against ring and cylinder wear.
- * Keep piston clean.
- * Neutralizes acids from high sulfur fuel.
- * Maintains efficient fuel consumption.

PERFORMANCE STANDARD :

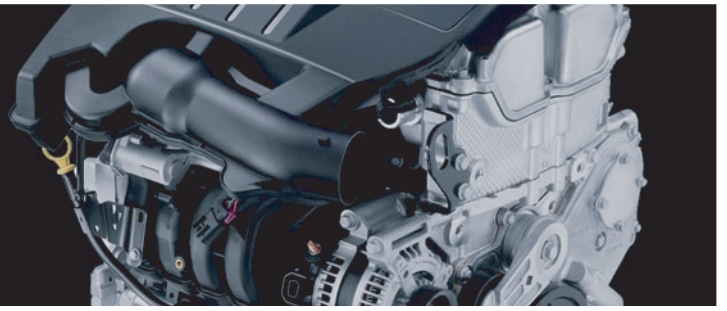
- * API CH-4/SJ
- * Mack EO-L
- * ACEA E2-96#4, B3-98, B4-98, A3-98
- * Mercedes-Benz 228.2 / 228.3
- * VW 505

TYPICAL CHARACTERISTICS :

TEST DESCRIPTION	METHOD	TYPICAL RESULTS
SAE Viscosity Grade	SAE J 300	15W-40
Specific Gravity @ 15 °C	ASTM D 4052	0.891
Flash Point, °C	ASTM D 92	230
Pour Point, °C	ASTM D 97	-18
Kinematic Viscosity @ 40°C	ASTM D 445	192.5
@ 100°C	ASTM D 445	20.41
Viscosity Index	ASTM D 2270	124
TBN, (mgKOH/g)	ASTM D 2896	12.1
Color	ASTM D 1500	<3.0

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DIESEL ENGINE OIL

SAE 20W-50 API CF-4/SG

MG Oil Diesel Engine Oil provides premium quality service in both diesel and gasoline engines. It is specially formulated for heavy-duty service in diesel engines found in both on-highway and off-highway vehicles and equipment. **MG Oil Diesel Engine Oil** is recommended for use in over the road diesel trucks, heavy-duty construction equipment, oil field engine, farm vehicles and passenger diesel cars, as well as for mixed fleet operations to use single line of motor oils for all vehicles.

APPLICATIONS / BENEFITS :

- * Helps extend engine life
- * Recommended for both gasoline and diesel engines
- * Minimizes piston and combustion chamber deposits
- * Fights sludge and varnish
- * Contains anti-corrosion agents

PERFORMANCE STANDARD :

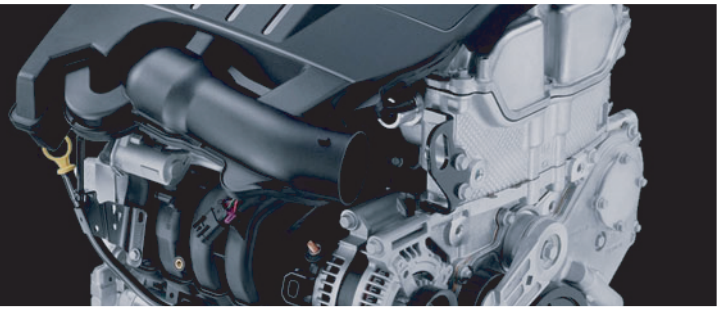
- * API CF-4/SG
- * ACEA E1-96#2, E2-96#5
- * Mercedes-Benz 227.0, 228.0, 228.1

TYPICAL CHARACTERISTICS :

TEST DESCRIPTION	METHOD	TYPICAL RESULT
SAE Viscosity Grade	SAE J 300	20W-50
Specific Gravity @ 15 °C	ASTM D 4052	0.893
Flash Point, °C	ASTM D 92	234
Pour Point, °C	ASTM D 97	-18
Kinematic Viscosity @ 40°C	ASTM D 445	187
@ 100°C	ASTM D 445	20.5
Viscosity Index	ASTM D 2270	128
TBN, (mgKOH/g)	ASTM D 2896	12
Color	ASTM D 1500	<3.0

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DIESEL ENGINE OIL

SAE 40 API CF/SF

MG Oil Diesel Engine Oil is good value-for-money quality product that is suitable for both gasoline and diesel powered vehicles. It contains highly effective dispersant inhibitor that controls sludge and other contaminants generated during common urban stop-and-go or short trip driving conditions.

APPLICATIONS / BENEFITS :

- * Provides good protection against engine wear.
- * High thermal stability for high temperature turbo protection..
- * Constant lubrication whether hot or cold.
- * Minimizes varnish and sludge.

PERFORMANCE STANDARD :

- * API CF/SF
- * ACEA E2-96#5
- * Mercedes-Benz 228.0

TYPICAL CHARACTERISTICS :

TEST DESCRIPTION	METHOD	TYPICAL RESULTS
SAE Viscosity Grade	SAE J 300	40
Specific Gravity @ 15 °C	ASTM D 4052	0.897
Flash Point, °C	ASTM D 92	254
Pour Point, °C	ASTM D 97	-9
Kinematic Viscosity @ 40°C	ASTM D 445	155.7
@ 100°C	ASTM D 445	15.31
Viscosity Index	ASTM D 2270	99
TBN, (mgKOH/g)	ASTM D 2896	11.5
Color	ASTM D 1500	<3.5

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