



DEOTEC ADVANCE

FULLY SYNTHETIC

PRODUCT DESCRIPTION:

DEOTEC ADVANCE is a fully synthetic high performance heavy duty diesel engine oil that helps towards long engine life while providing long drain capability for modern diesel engines operating in severe applications. The high TBN level neutralizes the harmful effects of Sulphur contained in low quality diesel fuel. It delivers excellent performance in modern low emission engines, as well as older, well-maintained engines.

APPLICATION:

It is recommended for use in super high performance diesel applications, including modern low emission engine designs with Exhaust Gas Recirculation (EGR). These applications include on-highway engines operating in both high speed/high load and stop-and-go conditions, off-highway engines operating in severe low speed/heavy load conditions, and virtually all diesel powered equipment from American, European, and Japanese equipment builders.

FEATURES & BENEFITS:

- Outstanding thermal and oxidation stability
- One engine oil for mixed fleet operations
- Exceptional low temperature pumpability
- Helps towards long life of critical wear surfaces
- Long drain capability and Fuel economy potential

PERFORMANCE LEVELS:

- Meets or Exceeds:
 - API CI-4/SL
 - ACEA E7, A3/B3/B4
 - MB 228.3 / 229.1
 - MAN M3275-1
 - Volvo VDS-3
 - Deutz DQC III-10
 - JASO DH1
- MACK EO-N
- Cummins CES 20076/20077/78
- Global DHD-1
- Renault RLD-2
- MTU Type 2
- Allison C4
- Caterpillar ECF 1a, ECF 2
- DDC 93K215

TYPICAL PROPERTIES:

PARAMETERS	TEST METHOD	UNIT	DEOTEC ADVANCE (FULLY SYNTHETIC)			
			0W-30	0W-40	5W-30	5W-40
Grade			0W-30	0W-40	5W-30	5W-40
Kinematic Viscosity @ 104° F /40° C	ASTM D-7042	cSt	67.1	89.0	68.45	91.65
Kinematic Viscosity @ 212° F /100° C	ASTM D-7042	cSt	11.9	15.1	11.8	15
Viscosity Index (min)	ASTM D-2270	-	176	180	170	173
SP. Gravity @15° C/ 60° F	ASTM D-4052	g/cm ³	0.845	0.845	0.859	0.859
Flash Point (min)	ASTM D-92	°C	234	230	234	232
Pour Point (max)	ASTM D-97	°C	-42	-42	-42	-42
TBN	ASTM D-2896	Mg KOH/g	11	11	11	11
CCS, (°C)	ASTM D-5293	m.Pa.S	<6200 (-35° C)	<6200 (-35° C)	<6600 (-30° C)	<6600 (-30° C)

HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS available on our website Phoenixlubricants.com