

### PATRON TURBOTRON HD

(FULLY SYNTHETIC)

#### PRODUCT DESCRIPTION :

PATRON TURBOTRON HD is a fully synthetic high performance diesel engine oil developed to provide outstanding lubrication to modern, high performance diesel engines operating in severe on and off-highway applications. This product has been blended with highest performance base oils which provide excellent low temperature fluidity, high temperature viscosity retention, volatility control, and fuel economy improvement.

#### APPLICATION :

- Naturally aspirated and turbo-charged diesel powered engines built by European and Japanese manufacturers.
- On-highway light and heavy-duty trucking.
- Off-highway industries including: construction, mining, quarrying, and agriculture.

#### FEATURES & BENEFITS :

- Excellent anti wear performance.
- Substantial increases in oil drain periods
- Latest technology dispersant, detergent, oxidation inhibition, anti-wear, anti corrosion, viscosity improver, and foam suppression protection.
- Advanced base oil and additive technology helps control oxidation, sludge and oil thickening.

#### PERFORMANCE LEVELS / MEETS OR EXCEEDS:

This product is recommended for use in applications requiring:

- API CI-4
- ACEA E7, E4
- MB 228.5
- MAN M3277
- Volvo VDS-3
- Scania LDF-2
- MACK EO-M Plus
- Cummins CES 20077/78
- Renault RXD/RLD-2
- MTU Type 3

#### TYPICAL PERFORMANCE :

PARAMETERS	ASTM	UNIT	PATRON TURBOTRON HD	
			15W40	10W40
<b>Grade</b>			<b>15W40</b>	<b>10W40</b>
Kinematic Viscosity @ 104°F /40°C	D-7042	cSt	104.1	102.3
Kinematic Viscosity @ 212°F /100°C	D-7042	cSt	15.42	15.2
Viscosity Index	D-2270	-	157	157
SP. Gravity @15°C/ 60°F	D-4052	g/cm3	0.8680	0.877
Flash Point (min)	D-92	°C	232	234
Pour Point (max)	D-97	°C	-42	-42
TBN	D-2896	Mg KOH/g	12.5	12.5
CCS, (°C)	D-5293	m.Pa.S	6600 (-35°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.

#### STORAGE:

We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.