

## PRODUCT DATA SHEET



### MULTIGRADE DIESEL ENGINE OIL PHD-15W40 & PHD-20W40 (COMMANDER)

These oils are high quality performance **multigrade** engine oils, meeting API:CF/SF performance requirements, formulated from selected base oils and additives, to suit diesel engines.

#### PRODUCT FEATURES

- ❖ Optimum viscosity is maintained to provide effective lubrication.
- ❖ Special dispersant / detergent additives provide excellent piston cleanliness and reduce exhaust emission.
- ❖ Lower oil consumption and increased fuel efficiency.
- ❖ Quicker engine starts and longer battery life.
- ❖ Suitable for all seasons.

#### APPLICATIONS

- ❖ Recommended for lubrication of all 4-stroke diesel engines / turbo charged engines of heavy vehicles and heavy earth moving machinery and power generating sets, operating under **severe duty** conditions.

**PERFORMACNE LEVEL:** IS13656-2002(E-DL3), API: CF and exceeds US MILITARY MIL-L-2104C, MACK T-7 specifications.

CHARACTERISTICS			
S.NO.	PROPERTIES	PHD 15W40 (COMMANDER)	PHD 20W40 (COMMANDER)
1.	Appearance	Clear Golden Natural	Clear Red
2.	Kinematic Viscosity, cSt @ 100°C	12.5-16	12.5-16
3.	Viscosity Index, min.	115	110
4.	Pour Point, °C, max.	-27	-21
5.	Flash Point, COC, °C, min.	200	200
6.	TBN, mg. KOH/gm.	5-7	5-7

**\*The specifications are subject to variations/development/customization.**

**PACKING:** PHD 15W40 – 210L, 50L, 20L, 1L, 500ml  
PHD 20W40 (COMMANDER) – 210L, 50L, 20L, 10L, 7.5L, 6L, 5L, 1L