

## PRODUCT DATA SHEET



### MARINE OILS

#### PAL MARINE - 410, 420, 430, 440

These oils are superior performance heavy-duty high TBN engine oils, meeting API: CD performance requirements, specially developed to protect engine parts from corrosion attributed to high sulphur levels encountered in residual fuels. They reduce formation of sludge in the engine and increase engine life, reduce exhaust emission due to high detergency, increase oil drain interval due to good dispersant properties, lower oil consumption and increase fuel efficiency.

These oils are formulated from selected base oils having high thermal & oxidation stability and anticorrosive, antirust, antioxidation, antiwear and high detergency additives to provide optimum performance features, keep engine clean and minimize maintenance cost.

**Recommended** for lubrication of engines operating on diesel/residual fuels (FO/LSHS/HPS etc.) coupled with high power generating sets operating under **severe duty** conditions.

**PERFORMANCE LEVEL:** IS 13656-2002(E-DL3), US MILITARY-MIL-L-2104C and API: CD, specifications.

CHARACTERISTICS					
S.NO.	PROPERTIES	PAL MARINE			
		410	420	430	440
1.	SAE Grade	40	40	40	40
2.	Kinematic Viscosity, cSt @100°C	13-16	13-16	13-16	13-16
3.	Viscosity Index, min.	95	95	95	95
4.	Pour Point, °C, max.	-6	-6	-6	-6
5.	Flash Point, COC, °C, min.	220	220	220	220
6.	TBN, mg KOH/gm.	10	20	30	40

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

**PACKING:** 210L, 50L