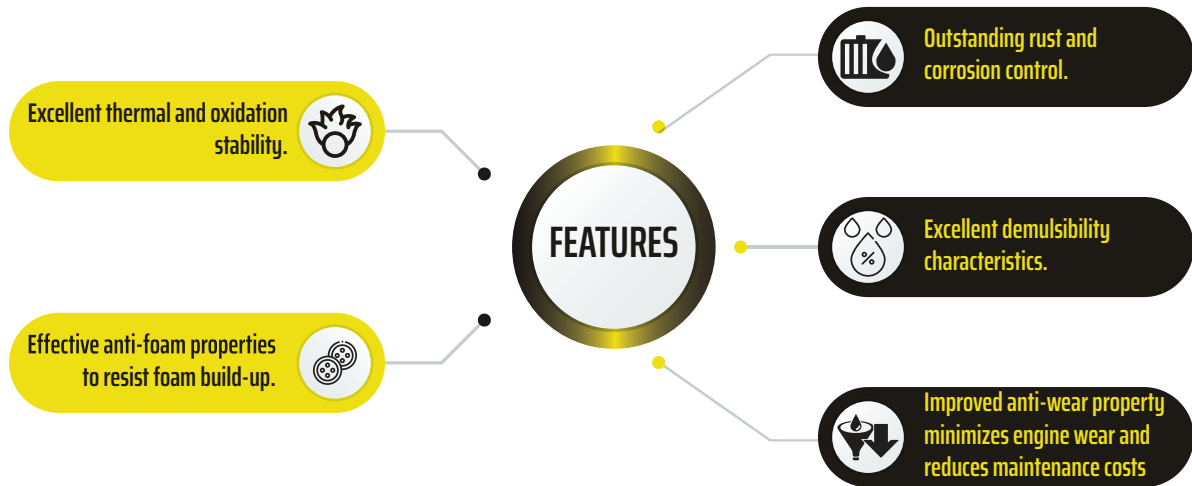


Shield's Marine Diesel Oil is designed for use in medium speed diesel engines applications. The modern additive technology used in this oil provides superior compatibility for engine cleanliness & protection. This oil is available in SAE 30 & SAE 40 viscosity grades with a Total Base Number (TBN) of 10, 12, 15 & 20.



APPLICATIONS:

Shield's Marine Diesel Oil is recommended for medium speed engines used in marine, power generation and industrial applications operating on distillate fuels having Sulphur contents up to 1.5%. This product is also suitable for older engines where liner-lacquer is not a potential problem. It is also recommended for general lubrication of shipboard equipment where specialized lubricants are not required.

TYPICAL PHYSICAL PROPERTIES

SL#	Characteristics Unit	Test Method	ISO Grades							
			3010	3012	3015	3020	4010	4012	4015	4020
1	SAE Grade	-	30	30	30	30	40	40	40	40
2	Kinematic Viscosity @ 100°C	ASTM D 445	11	11	11	14	14	14	14	14
3	Viscosity Index	ASTM D 2270	>95	>95	>95	>95	>95	>95	>95	>95
4	Flash Point, °C	ASTM D 97	230	240	240	240	240	240	240	240
5	Pour Point, °C	ASTM D 1401	-9	-9	-9	-9	-9	-9	-9	-9
6	Total Base Number, mgKOH/g	ASTM D 2896	9.2-10.6	10.5-12.5	13.1-15.9	18.2-21.3	9.2-10.6	10.5-12.5	13.1-15.9	18.2-21.3

*Exact specifications may slightly vary from the above, but within the international standards.