



**VORTA MARINE Oils** (Alkaline Crankcase) are a range of alkaline detergent crankcase system oils for use in low, medium, highly rated crosshead marine diesel engines particularly those with oil cooled pistons, where the sulphur content of the used distillate fuels is below 1 %.

premium quality marine multi-purpose system oils designed, primarily for low-speed, crosshead, marine diesel engines operating

**VORTA MARINE Oils** are formulated from premium quality marine multi-purpose system oils designed marine diesel engines operating paraffinic base oils and the latest additives.

**VORTA MARINE Oils** are also suitable in equipment where an SAE 30 or 40 oil is specified, such as certain geared transmissions, reversing clutches, oil lubricated stern tubes, turbochargers variable pitch propellers, seals and other auxiliary equipment.

Reduced deposits and formation of sludge, excellent protection against salt water, minimal deposits in under-piston area, excellent oxidation stability and resistance to thickening and long oil service life.

**Oxidation stability**

**Excellent dispersancy**



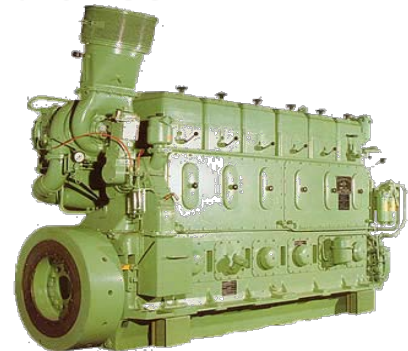
- Alkalinity
- Water shedding properties
- Resistance to corrosion

**API - CD**

**US Military - MIL-L-2104C (obs.)**

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**paraffinic base oils and the latest additives.**



SAE viscosity grade	30	40	50
Density @15 °C	0.895	0.898	0.899
Kinematic viscosity (40°C),cSt	108.7	146.9	205
Kinematic viscosity (100°C),cSt	12.1	14.6	18
Viscosity Index	104	102	103
Pour point, °C	-25	-9	-11
Flash Point, °C	256	265	272
Total Base Number, mgKOH/g	10	12	12
Sulphated Ash, %Wt	1.1	1.1	1.1

