



MARINE TRUNK PISTON ENGINE OIL

BRAVOIL™

Technical Data Sheet

MARINE 3030 & 3040

PRODUCT DESCRIPTION:

MARINE 3030 and 3040 are specifically designed trunk piston engine oils that are used for the crankcase lubrication requirements of high-output, medium-speed engines and similar marine-type applications. These oils are made from thermally stable base oils that are derived from solvent-refined paraffin. They feature an effective additive package that enhances load-carrying ability, oxidation stability, and dispersancy/detergency. These oils also provide effective acid neutralization and alkalinity retention, even when high-Sulphur fuel is utilized. They are able to handle heavy residual fuels that have a high asphalt content.

APPLICATION:

MARINE 3030 and 3040 oils are specifically recommended for use in high-output trunk piston marine diesel engines that operate on heavy residual fuels with a sulfur content of up to 2.0%.

FEATURES & BENEFITS:

- Excellent TBN retention, with low oil consumption
- Cleaner piston, ports and cylinders, thus extending overhauls
- Fast separation from water in case of water contamination
- Low under crown deposits
- Controls sludge formation, thus increasing oil filter life and reduces cleaning frequencies

PERFORMANCE STANDARDS: Meets or Exceeds:

- API CF

MEETS OEMs

- MAN
- Wartsila
- Daihatsu
- Mak / Caterpillar
- Yanmar

TYPICAL PROPERTIES:

PARAMETERS	TEST METHOD	UNIT	MARINE 3030	MARINE 3040
SAE Grade			30	40
Kinematic Viscosity @ 104°F/40°C	ASTM D445	cSt	TBR	TBR
Kinematic Viscosity @ 212°F/100°C	ASTM D445	cSt	11.0	15.0
Viscosity Index (min)	ASTM D2270	-	95	95
Density @ 60°F	ASTM D4052	g/cm ³	TBR	TBR
Flash Point (min)	ASTM D92	°C	220	220
Pour Point (max)	ASTM D97	°C	-9	-9

DISCLAIMER:

The test data provided is not a final specification; rather, it serves as a guideline and may vary within acceptable production tolerances. Bravoil reserves the right to modify this test data. Any updates will supersede previous versions, so please refer to the most recent Technical Data Sheet (TDS).

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 available on our website www.bravoil.ae

HEALTH & SAFETY:

This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office or via the internet www.bravoil.ae

PROTECT THE ENVIRONMENT:

Take used oil to an authorized collection point. Comply with local regulation. Do not discharge into drains, soil or water.

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.