

NS GEN 312 / 412

SAE 30/40 - Trunk Piston Engine Oil - BN 12

SKU: xxxxxx

PRODUCT OVERVIEW

NS GEN 312 and NS GEN 412 are medium-alkaline trunk piston engine oils for medium- and high-speed four-stroke diesel engines running on distillate fuels. A BN 12 detergent-dispersant system neutralises the acids formed when burning marine gas oil and marine diesel oil, while controlling piston deposits, ring-belt lacquer and crankcase sludge. Highly refined base oils provide strong thermal and oxidation stability together with rapid water separation, so the charge resists viscosity increase and purifies cleanly over long service periods.

APPLICATIONS

Recommended for the crankcase lubrication of medium- and high-speed four-stroke trunk piston diesel engines in marine propulsion, auxiliary and stationary power service, running on MGO, MDO and other distillate fuels up to 1.0% sulphur. Also suitable for reduction gears, bearings and stern tubes where an SAE 30 or SAE 40 oil is specified. NS GEN 312 covers engines calling for SAE 30, NS GEN 412 for SAE 40.

SPECIFICATIONS Meets or exceeds: **API CF | Everlence (MAN ES) | Wärtsilä | MaK (Caterpillar) | Yanmar**

CHARACTERISTICS*

PROPERTY	TEST METHOD	NS GEN 312	NS GEN 412
SAE Viscosity Grade	SAE J300	30	40
Density at 15°C, g/cm ³	ASTM D4052	0.893	0.895
Kinematic Viscosity @ 40°C, cSt	ASTM D445	105	138
Kinematic Viscosity @ 100°C, cSt	ASTM D445	11.8	14.2
Viscosity Index	ASTM D2270	100	98
Flash Point (COC), °C	ASTM D92	240	245
Pour Point, °C	ASTM D97	-18	-18
Base Number, mgKOH/g	ASTM D2896	12	12

*The specifications above are for illustrative purposes and communicated for information only.

PROPERTIES & BENEFITS

Acid Neutralization

A BN 12 alkaline reserve neutralises acids formed by distillate fuel combustion, protecting liners, rings and bearings from corrosive wear.

Sludge Control

Strong dispersancy suspends soot and oxidation products, keeping crankcases, cam boxes and oil filters clean.

Oxidation Stability

Highly refined base oils resist thermal degradation and control viscosity increase in service.

Piston Cleanliness

Balanced detergency controls deposits on piston crowns, ring grooves and under-crown areas, helping extend periods between overhauls.

Water Separation

Rapid demulsibility lets the purifier remove water and insolubles, protecting the charge after an ingress.

Load Carrying Capacity

Extreme-pressure performance extends use to reduction gears, bearings and stern tubes.