

Power TS Syntronic 2str. Motor Oil

Bardahl Power TS Syntronic Motor Oil is a special fully-synthetic, ashless, **ester based** two-stroke engine oil. This oil is biodegradable and has a higher quality than is prescribed by the leading manufacturers of outboard engines. exceeds the lubrication requirements of water-cooled outboard engines and air-cooled engines that are heavily loaded and have to run at a high speed for a long time. **Bardahl Power TS Syntronic Motor Oil** complies with strict lubrication regulations as drawn up by the National Marine Manufacturer's Association: NMMA/BIA TC-W3.

The name Bardahl gives the user extra security over that of other outboard engine oils. **Bardahl Power TS Syntronic Motor Oil** combines the maximum performance of ashless additive package with the high quality of ester base oils that combust clean. This combination ensures that the spark plugs remain clean, no deposit form and the exhaust ports remain clean and free of rust.

Bardahl Power TS Syntronic Motor Oil can be mixed with all types of gasoline.

The problem

Two-stroke outboard engines operate at lower temperatures than other two-stroke engines. Due to these low temperatures, precipitations are formed that are caused by unburned fuel and the oxidation residues. These components condensate and polymerize into varnish, gum and carbon residue. Low operating temperatures also cause corrosion, rust and precipitation in the combustion chamber.

Scuffing pistons and jammed engines can be the result of poor lubrication. The high power and fluctuating rpm's make outboard engines very sensitive to increase friction, by scuffing pistons Two-stroke engines run on a thin lubricating film, when this lubricating film is missing, pistons will be protected by a boundary state oil film. The result will be precipitations of oxidized oil and incompletely burned lubricant adversely affect the performance of the engine. Stuck piston rings and piston pins caused by gum and varnish (oxidized oil down layers) ensure reduced compression and power loss.

How it works

Bardahl Power TS Syntronic Motor Oil has managed to pass the most rigorous tests of the NMMA. This oil is a unique mixture of high-quality base oils, synthetic anti-wear and high-pressure components and an additive package with a high molecular weight. This mixture of special additives and ester base oils can burn ashless ensuring clean combustion, to resist oxidation and wear.

To prevent piston rings from getting stuck, no varnish forms at the piston pins or piston and no carbon forms, Bardahl uses an ashless 'detergent-dispersant' system. This ashless system protects against pre-ignition, clogged exhaust ports and contaminated spark plugs.

Bardahl Power TS Syntronic Motor Oil contains special components that should prevent the formation of rust. A special treated hydrocarbon with a low viscosity ensures the oil mixes easily with gasoline and an even oil / fuel mixture has been created.

Specifications

API - TC+ | CEC - L-33-A-93 | NMMA - TC-W3

BIODEGRADABLE – ENVIRONMENTALLY SAFE

Analysis data

Test			
Power TS Syntronic Motor Oil	Method	Unit	Results
Viscosity at 40°C	ASTM D445	mm /s	51.3
Viscosity at 100°C	ASTM D445	mm /s	9.8
Viscosity Index	ASTM D2270		169
tbn	ASTM D-664	mg KOH/g	5.9
pourpoint	ASTM D6892	°C	-39
Colour	ASTM D1500		green
Specific Gravity at 15/15°C	ASTM D4052	g/ml	0.905
Flashpoint	ASTM D92	°C	102
Sulphated Ash	ASTM D874	Wt. %	0

Manual

Bardahl Power TS Syntronic Motor Oil is easy to mix with gasoline and will not be effected at very low temperatures. Mix the oil according to the instructions of the engine manufacturer (until 100:1). For competition purposes, the fuel/oil ratio adjusts the fuel/oil ratio according to the circumstances and the extent to which the engine is boosted to the fuel/oil ratio. This Outboard Engine Oil has been specially developed to fulfill the very latest lubrication regulations of outboard/jetski engine manufacturers. It complies with the regulations of Johnson/Evinrude, Mercury, Bombardier-Rotax and other outboard engine manufacturers that prescribe the new NMMA TC-W III requirements.

This two-stroke oil can be used for premixed (premixed) and oil injection systems of outboard and other two-stroke engines and/or when a bio degradable 2-stroke oil has been prescribed.

Biodegradable

Bardahl Two Stroke Motor Oil is biodegradable. The biodegradability, measured according to the CEC L-33-A-93 test

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