



Product information

VBA Synthetic Scooter 2-Stroke Motor Oil

Bardahl VBA Synth. Scooter is a high quality synthetic based 2-cycle lubricant formulated to work equally well in either fuel mix or injection lubrication systems. It contains a new advanced additive system with a unique, synthetic, anti-scuff agent to provide the ultimate in performance even under the most demanding conditions. **Bardahl VBA Synth. Scooter** also contains low-ash detergents, flow improvers, mixing aids and high quality base oils. For use in any air-cooled 2-cycle engine such as motorcycles, snowmobiles, lawnmowers, power saws, pumps, generators, etc. It is a superior lubricant for competition racing and at mixing ratios as low as 100:1 it can be used in most 2-cycle engines operating at 5000 RPM or less.

The problem

Modern air-cooled 2-cycle engines are operated in a wide variety of conditions, and often under heavy load or high speed conditions, increasing the chances of pistons sticking and excessive engine wear.

The leading causes of poor 2-cycle engine performance and excessive maintenance costs are deposits. Ash, gum and varnish deposits caused by combustion and heat of the fuel/oil mixture will foul plugs, stick rings and seize wrist pins. These deposits can also increase piston scuffing and lead to pre-ignition.

Incomplete mixing of gasoline and the lubricant can lead to excessive engine wear, increased engine deposits and poor performance.

Proper flow of 2-stroke injection oils to the pump is critical, especially in cold weather or when injection oil is used in snow-mobiles with 2-stroke injection engines: Failure of an oil to flow properly leads to piston scuffing and engine seizure.

The action

Bardahl VBA's blend of synthetic anti-wear agents, detergents and synthetic base oil has been tested under a variety of laboratory and rigorous field conditions.

Bardahl VBA Synth. Scooter is blended to minimize ash, varnish and gum deposits. In field and dynamometer testing with both injection and fuel-mix lubricated engines comparing **Bardahl VBA Synth. Scooter** to leading competitive oils the VBA had significantly fewer deposits. These tests demonstrate the ability of **Bardahl VBA Synth. Scooter** to control deposits, thus reducing related performance and maintenance problems.



Product information

Bardahl VBA Synth. Scooter contains ingredients which allow both quick-and-easy mixing in gasoline and good low temperature flow properties to insure proper oil feed to injection pumps in cold weather.

Directions for use

Bardahl VBA Synth. Scooter should always be used in accordance with engine manufacturer's recommendations. When used as a fuel-mix, care should be taken to mix the oil thoroughly with the fuel. **Bardahl VBA Synth. Scooter** can be used at dilutions as low as 100:1 in most 2-stroke engines operating under 5000 RPM. The amount of dilution depends upon engine design and operating conditions. In some engines, jetting changes may be required.

Mixing ratio	Oil Ltr.	Gas Ltr.
16:1	0,5	8
20:1	0,5	10
25:1	0,5	12,5
40:1	0,5	20
50:1	0,5	25
100:1*	0,25	25

* Only in engines operating at 5000 RPM or less.

Specifications

API TC

Characteristics

Dichtheid bij 15 °C ASTM D4052 g/ml	0.872
Kinematische viscositeit bij 40 °C ASTM D445 mm ² /s	76.8
Kinematische viscositeit bij 100 °C ASTM D445 mm ² /s	10.4
Viscositeitsindex ASTM D2270	120
T.B.N. (HCLO4-methode) ASTM D2896 mg KOH/g	1.7
Vlampunt COC ASTM D92 °C	106

This two stroke oil can be used in outboard engines it exceeds TSC-3 specifications.

Article number 55951
Contents 1 litre

Article number 55982
Contents 25 litre