



LUBRICANTS

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# TECH DATA

## SENTRON™ VLA 40

### STATIONARY GAS ENGINE OIL

## INTRODUCTION

Petro-Canada Lubricants SENTRON™ VLA 40 is a “very” low-ash stationary gas engine oil, specifically designed for engines running at low loads (<60% MCR). While ash deposits provide a barrier between valve seating surfaces in normal operating conditions, low load engines tend to have increased oil consumption leading to more ash deposit accumulation. This can result in higher risk of excessive ash deposit buildup in the combustion chamber leading to spark plug fouling, valve issues, and piston / liner damage. SENTRON VLA 40 is formulated with a very low ash content of 0.3% to address cylinder head / valve issues and liner wear in lightly loaded engines.

Petro-Canada Lubricants SENTRON stationary gas engine oils (SGEO) are premium-performance, long-life engine oils specially formulated to lubricate stationary gas engines. Offering exceptional protection against wear and corrosion, SENTRON helps provide worry-free operation, increased engine durability and engine life, which can lead to a reduction in overall operating costs. SENTRON VLA 40 is formulated with Petro-Canada Lubricants’ ultra-pure HT Severely Hydrotreated base oils and advanced additive technology to help deliver a combination of extended oil life and excellent control of engine deposits.

Petro-Canada Lubricants starts with the HT purity process to produce water-white, 99.9% pure base oils. The result is a range of lubricants, specialty fluids and greases that deliver maximum performance for our customers.

## FEATURES AND BENEFITS

### Optimal protection against deposit formation

The very low ash content of SENTRON VLA 40 prevents excessive combustion chamber deposit buildup. Excessive combustion chamber deposits on the piston crown and cylinder head will not only increase the compression ratio of an engine which can result in detonation, but it can also be a source of pre-ignition. SENTRON VLA 40 limits these risks.

### Reduction of ring sticking / breaking and valve burning

Excessive piston ring and groove deposits can potentially result in ring sticking / breaking. SENTRON VLA 40 helps control piston ring and groove deposit formation.

Too much ash buildup on exhaust valve seating surfaces and valve seats leads to “bridging” of the ash, which will eventually cause a leak path for hot gases to form. An exhaust valve will burn (torch) because of this. Too much ash around and / or inside intake ports can prevent intake valves from closing / seating properly, potentially resulting in backfiring. SENTRON VLA 40 helps control ash deposits buildup on valve seating surfaces preventing the above mentioned issues.

### Reduced spark plug fouling

Spark plug fouling can be a direct result of excessive ash deposit formation. The ash will bridge the spark plug electrodes, leaving the spark plug less efficient or not working at all. The very low ash content of SENTRON VLA 40 prolongs spark plug life in lightly loaded engines.

### Long oil life provides long-lasting equipment protection

SENTRON VLA 40 has demonstrated strong oil life in engine field trials. This robust oil life means lower operating costs, optimal performance, and more control over runtime while maintaining the health of the engine.



## TYPICAL PERFORMANCE DATA

PROPERTY	ASTM TEST METHOD	SETRON™ VLA 40
Sulphated Ash, wt%	D874	0.30
SAE Grade	-	40
Flash Point, COC, °C	D92	263
Kinematic Viscosity cSt @ 40°C cSt @ 100°C	D445	116.5 13.0
Pour Point, °C	D5950	-24
Total Acid Number, mg KOH/g	D664	0.32
Total Base Number, mg KOH/g	D2896	2.9
Elemental analysis by ICP, %Ca	D4951	0.072
Elemental analysis by ICP, %P	D4951	0.042
Elemental analysis by ICP, %Zn	D4951	0.019
Sulfur, wt%	D4294	0.128

The values quoted above are typical of normal production. They do not constitute a specification.

## APPLICATIONS

SETRON VLA 40 is recommended primarily for low-loaded four-stroke engines. The decision to use this product is technical in which many factors need to be considered. Please consult your Petro-Canada Lubricants Technical Services Advisor for further information.

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Committed to the disciplined operation of our business.



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