



SENTRON™ VTP NATURAL GAS ENGINE OIL

Introduction

Petro-Canada's SENTRON™ VTP 0W-30 and 10W-40 are low ash multi-grade natural gas engine oils (NGEOs) that provide extended protection to natural gas fuelled engines in heavy oil extraction where an oil having increased zinc additive is required to control valve train wear.

SENTRON VTP 10W-40 is designed to aid starting in cold winters while retaining protection in severe service in hot weather. SENTRON VTP 0W-30 is specially designed to provide low temperature performance in extreme cold winter conditions faced by engines that are in unheated areas. It can also provide all season reliability in lower load engines resulting in product reliability and inventory consolidation.

SENTRON VTP multi-grade natural gas engine oils are formulated with Petro-Canada's ultra pure HT Severely Hydrocracked base oils and advanced additive technology to provide customers with extended drain intervals, reduced oil consumption, and prolonged wear protection at a wide range of temperatures, which all leads to reduced overall operating costs.

Features and Benefits

- **Potential to extend drain intervals and lower oil consumption which may reduce maintenance costs and provide customer savings**
 - SENTRON VTP 10W-40 has robust high shear rate viscosity at 150°C to reduce wear
 - Low volatility to control oil consumption
- **Wide operating temperature range controls operating costs**
 - Allows low temperature starting to reduce lost production time

- Reduces seasonal change-outs to lower inventory carrying costs
- SENTRON VTP 0W-30 allows low temperature starting down to -35°C
- **Outstanding anti-wear protection**
 - Excellent high and low temperature wear control to protect equipment
 - Optimized oil ash content to improve spark plug and head life

Applications

SENTRON VTP 10W-40 is recommended for use in natural gas fuelled engines in heavy oil extraction and irrigation. SENTRON VTP 10W-40 is suitable for use in applications where Cummins CES 20074-2012 is specified. DURON GEO LD 15W-40 is approved against Cummins CES 20074-2012 and Detroit Diesel DD 93K216 and should be the primary choice in mobile fleet applications. For more information, see the DURON GEO LD 15W-40 TechData.

SENTRON VTP 0W-30 formulation is specifically designed as an all season solution for lower load, small to mid-sized engines that are difficult to start in severe cold weather conditions. It provides low temperature performance down to -35°C as well as excellent cleanliness and control of valve deposits.

Operational Considerations

SENTRON VTP 0W-30 and 10W-40 with excellent control of wear provide worry-free operation and reduced cost to customers under recommended conditions. They are not recommended for catalyst service. Actual oil life is dependent upon system design and operating practices. Petro-Canada's No Nonsense Lubricants Warranty applies.

What is the HT difference?

Petro-Canada 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.



Typical Performance Data

PROPERTY	ASTM TEST METHOD	SENTRON VTP 0W-30	SENTRON VTP 10W-40
Ash Type	–	Low Ash	Low Ash
Sulphated Ash, % wt	D874	0.57	0.54
Viscosity Index	D2270	183	157
Flash Point, COC °C/°F	D92	223/433	235/455
Kinematic Viscosity, cSt @ 40°C	D445	59.4	103
cSt @ 100°C		11.1	15.3
SUS @ 100°F		272	469
SUS @ 210°F		63.1	78.7
High Temperature / High Shear Viscosity, cP@150°C		3.06	4.04
Cold Cranking Viscosity, cP@°C		5224 @ -35	5524 @ -25
Pour Point, °C/°F	D5950	-48/-54	-42/-44
Total Acid Number	D664	1.83	1.93
Total Base Number	D2896	4.19	3.97
Elemental analysis by, % P	D4951	0.0776	0.0755
Elemental analysis by, % Zn		0.0959	0.0835

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

Health and Safety

To obtain Material Safety Data Sheet (MSDS), contact one of Our TechData Info Lines.



TechData Info Lines

To place an order, please call a Customer Order Management Representative at :

Canada (English) Phone 1-800-268-5850
(French) Phone 1-800-576-1686
United States Phone 1-877-730-2369
Latin America Phone +1-416-730-2369
Europe Phone +1-416-730-2389
Asia Phone +1-416-730-2372
China Phone +86 (21) 6362-0066

To learn more about how Petro-Canada lubricants, specialty fluids, oils and greases can help maximize your equipment performance, savings and productivity, please contact us at :

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Europe Phone +44 (0) 121-781-7264
Germany Phone +49 (0)201 726 2913
Latin America Phone +1-416-730-2369
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Visit us on the web at lubricants.petro-canada.ca

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Beyond today's standards.

