

What Customers Are Saying...

Petro-Canada Lubricants at Work



“As soon as I changed the oil, it was an overnight success. I had really good results with the SENTRON* 470 Natural Gas Engine Oil. It’s a very impressive oil.”

– Quinn Darichuk, owner of Sierra Oilfield Contracting

THE CUSTOMER:
Sierra Oilfield Contracting
Cold Lake
Alberta
Canada

Field Test Proves SENTRON* 470 Significantly extends Change-out Intervals and Improves Engine Performance.

“Oil change intervals went from 750 hours to more than 1,500 hours.”

– Quinn Darichuk



You know you have a problem when you have to set up camp beside your client’s natural gas engines because they need servicing almost daily. That’s the situation in which Quinn Darichuk, owner of Sierra Oilfield Contracting, found himself.

Based in the city of Cold Lake, Alberta, Sierra Oilfield Contracting provides consulting and operation services to major oil and natural gas producers in northeastern Alberta and northwestern Saskatchewan.

“I’ve worked in the oil and natural gas production business for over 10 years and with many different makes of natural gas engines,” says Darichuk.

“These engines operate 24/7 in temperatures that fluctuate from one extreme to another, from -45° C (-49° F) to 35° C (95° F). A very typical challenge for these engines is oil degradation leading to frequent oil change-outs.”

Field Trial

Always on the lookout for solutions that will improve his clients’ productivity, Darichuk became involved in a field test of Petro-Canada’s SENTRON 470 Natural Gas

Engine Oil (NGEO). The field test was undertaken by a major international oil and natural gas producing company with a site near Cold Lake.

“We tested SENTRON 470 in an 810-horsepower Waukesha VHP F3521GSI engine, which was operated by one of my clients,” explains Darichuk. “The engine had valve sticking problems and a lot of backfiring and stalling due to the heavy load it was running. The misfires and backfires caused the equipment to quit and there were burning valves on the head left and right.”

SENTRON 470 is designed for use where there is a need for added high temperature deposit control. It incorporates

an additive boost for the extra performance required for severe service applications, including high output, turbocharged engines that encounter high exhaust gas



Petro-Canada’s SENTRON 470 was tested in this 810-horsepower Waukesha VHP F3521GSI engine.



After one year, test results showed cleaner pistons with less oil deterioration.

temperatures. The result may be significantly less valve sticking for reduced backfiring in these severe applications.

The field test involved overhauling two of the engine's six cylinders. The existing oil, which had been in use for approximately one year, was drained. Deposits and wear were measured and new heads, liners, bearings, pistons and rings inserted. The engine was then filled with Petro-Canada's SENTRON 470 SAE 40.

Results

The engine was tested for one year, or just over 8,000 hours, with only one oil change at 4,000 hours. The engine was then dismantled and measured again for deposits and wear. The results showed that the pistons were cleaner and in better condition after one year than they had been with the previous oil, and there was less oil deterioration. The test also met the client's requirement that the engine run one year without backfiring.

"From when I changed the oil in that unit, it was an overnight success," says Darichuk. "I had really good results with the SENTRON 470. The wear factor was minimal and there was no sticking at all; it disappeared almost overnight. It's a very impressive oil."

Product Benefits

Petro-Canada's SENTRON Natural Gas Engine Oils are premium-performance, long-life engine oils specially formulated to lubricate natural gas engines and compressors, and meet severe-service situations common to gas plants. They are formulated with



Petro-Canada's ultra-pure HT Severely Hydrocracked base oils and highly advanced additive technology to deliver extended oil life, extended drain intervals and excellent control of engine deposits.

"After the field test, oil change intervals went from 750 hours to more than 1,500 hours," says Darichuk. "From 12 times a year to less than four to six times a year, that gives my clients a huge savings."

"It's been a great product; no backfiring or stalling. Since the test, I've changed another client over to SENTRON 470. I've recommended this product to other companies and I think they've picked up on it."

If you would like to know more, please contact us at:

Petro-Canada
on the internet www.petro-canada.com

Petro-Canada Lubricants
2310 Lakeshore Road West
Mississauga, Ontario
Canada L5J 1K2



Canada West Phone 1-800-661-1199
Canada East (English) Phone 1-800-268-5850
Canada East (French) Phone 1-800-576-1686
Other Areas Phone (416) 730-2408
E-mail..... lubecsr@petro-canada.ca

Petro-Canada America Lubricants
980 North Michigan Avenue
Suite 1400, #1431
Chicago, Illinois
USA 60611

Phone 1-888-284-4572
Fax (708) 246-8994
E-mail..... email@petro-canadaamerica.com

Petro-Canada Europe Lubricants
The Manor, Haseley Business Centre
Warwick, Warwickshire
CV35 7LS
United Kingdom

Phone +44 (0) 2476-247294
Fax +44 (0) 2476-247295