

[ATHABASCA OIL CORP / 16-21-078-10W4M] L1 (PAD A) LIESMER

Customer: PTRHTF20133

ATHABASCA OIL CORP.

LEISMER DEMONSTRATION PLANT

LSD2-79-10-W4M

NEAR CONKLIN, AB Canada

Attn: George Ball Tel: (587)233-1312 E-Mail: gball@atha.com

System Information

System Volume: 8000 ltr

Bulk Operating Temp: 212F / 100C

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO LT Make: TORNADO TECHNOLOGIES

Sample Information

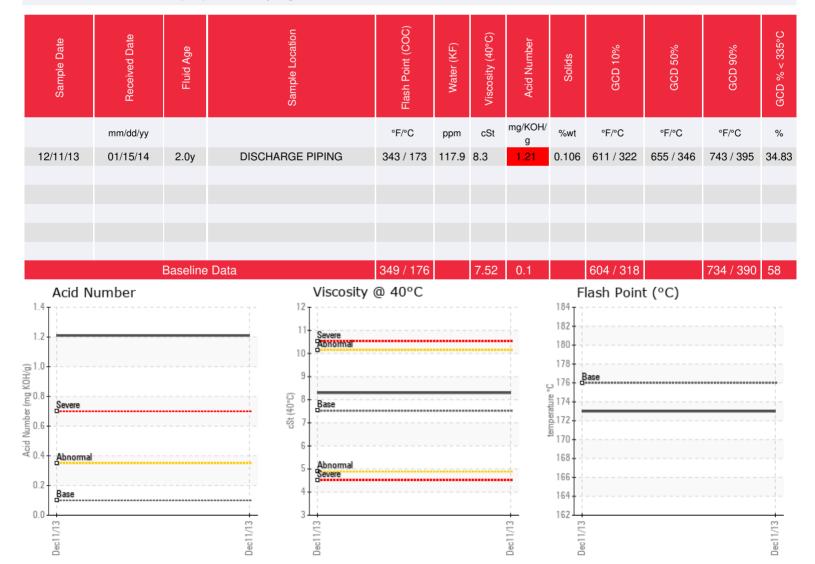
Lab No: 01889718 Analyst: Peter Harteveld Sample Date: 12/11/13 Received Date: 01/15/14 Completed: 01/22/14

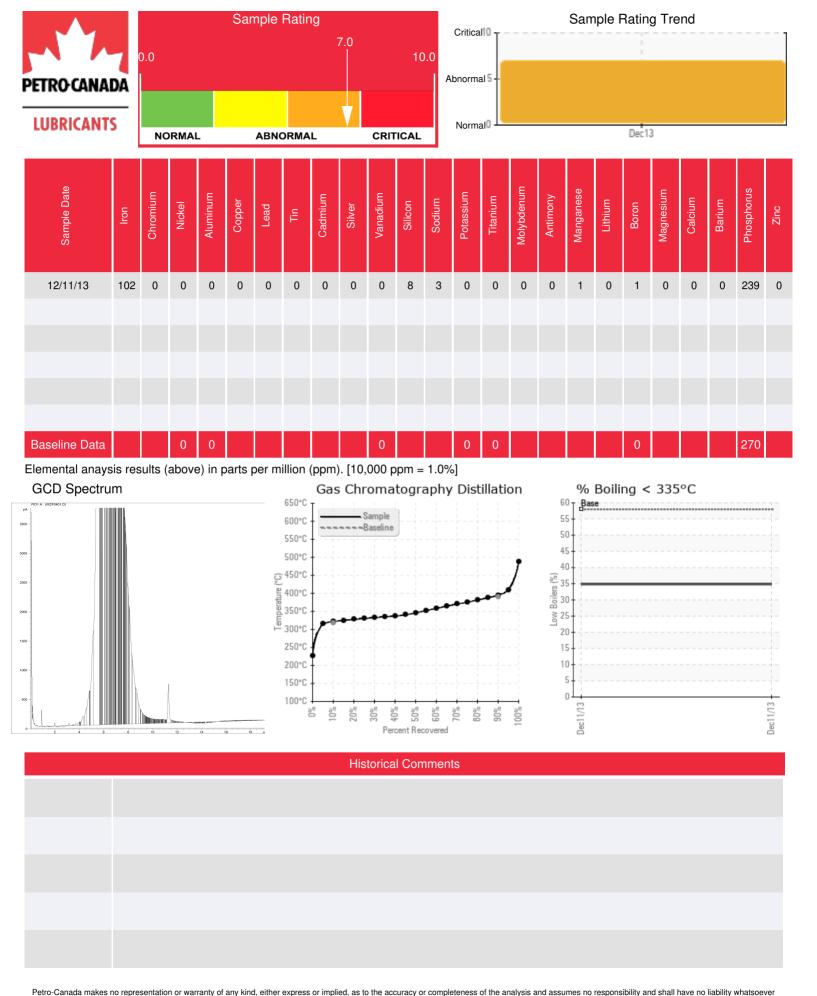
Peter Harteveld

peter.harteveld@HFSinclair.com

Recommendation: TAN is very high. This is most likely the result of oxidation taking place in the expansion tank of the system. The reported fluid temperature in the expansion tank is 120 degrees C. Depending on the remaining oxidative stable life of the fluid and the condition of the system internals with regard to deposit formation (coking), a decision has to be made on whether to sweeten the fill or replace the fill completely. For now it is recommended to lower the fluid temperature in the expansion tank and provide a N2 blanket to prevent contact with air (oxygen)

Comments: Acid Number (AN) is severely high.





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