



[ATHABASCA OIL CORP / 08-28-078-10W4M] L4 (PAD D) LIESMER

Customer: PTRHTF20133	System Information	Sample Information
ATHABASCA OIL CORP. LEISMER DEMONSTRATION PLANT LSD2-79-10-W4M NEAR CONKLIN, AB Canada Attn: George Ball Tel: x: E-Mail: gball@atha.com	System Volume: 8000 ltr Bulk Operating Temp: 212F / 100C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO LT Make:	Lab No: 02199770 Analyst: Peter Harteveld Sample Date: 02/01/18 Received Date: 02/21/18 Completed: 02/27/18 To discuss this report contact Peter Harteveld at (780)967-4234

Recommendation: The fluid is in good condition and suitable for further use. Low boiler vapor content is slightly high (GCD% <335C = 39.54%). For fresh Calflo LT this is 35%. This is a result of normal thermal degradation of the fluid and can be rectified by venting low boiler vapor to atmosphere. Please re-sample in 6 months.

Comments:

Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
02/01/18	02/21/18	3y		342 / 172	4.8	7.2	0.03	0.005	611 / 322	643 / 340	735 / 391	39.54
Baseline Data				349 / 176		7.52	0.1		604 / 318	640 / 338	734 / 390	35.0



