



**[7-14-63-20W5] ATHABASCA OIL CORP. - LSD: 7-14-63-20W5**

Customer: PTRHTF20046	System Information	Sample Information
QUADRA CHEMICALS 12925 146TH STREET EDMONTON, AB T5L 2H6 CANADA Attn: Quadra Samples Tel: E-Mail: quadra_samples@quadra.ca	System Volume: 29000 ltr Bulk Operating Temp: 320F / 160C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make:	Lab No: 02257511 Analyst: Peter Hartevelde Sample Date: 12/09/18 Received Date: 12/14/18 Completed: 12/19/18

Recommendation: The water content of the fluid is high. Please boil-off the water. Aside from the water the fluid is in good condition and suitable for further use. 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	%
12/09/18	12/14/18	5y	PUMP SUCTION	439 / 226	1032.4	34.7	0.12	0.088	710 / 377	809 / 431	914 / 490	2.22
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00



