



HEATTRANSFER- CIRC PUMP SUCTION

Customer: PTRHTF20033	System Information	Sample Information
Moose Jaw Refinery 641 Manitoba St. E, Box 2000 Moose Jaw, SK S6H 6E3 Canada Attn: GILBERT GRIFFIN Tel: (603)691-7823 E-Mail: ggriffin@mjrefinery.com	System Volume: 1308 gal Bulk Operating Temp: 302F / 150C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make:	Lab No: 02245353 Analyst: Yutong Gao Sample Date: 10/10/18 Received Date: 10/16/18 Completed: 10/19/18 To discuss this report contact Yutong Gao at (403)873-1876

Recommendation: The current fluid has normal viscosity, adequate flash point, low acid number, and it is suitable for the further use. The high solid content is a result of the non-cleaning, non-flushing process for a long period of time at this plant. Please take one sample in 12 months to monitor the oil conditions.

Comments: Pentane Insolubles levels are abnormally high.

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	%
10/10/18	10/16/18	0m		432 / 222	3.7	36.9	0.17	0.393	715 / 380	781 / 416	878 / 470	0.00
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00



