



Giant Manufacturing Co. Ltd

Customer: PTRHTF60007	System Information	Sample Information
CANADIAN RESOURCES INC 2F 71 CHONG CHING NORTH ROAD S C 3 TAIPEI, TAIWAN, PROVINC Attn: HUGO CHENG Tel: (886)225-853509 E-Mail: roychen1018@hotmail.com	System Volume: 10000 ltr Bulk Operating Temp: 464F / 240C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make:	Lab No: 02301264 Analyst: Yutong Gao Sample Date: 07/11/19 Received Date: 08/07/19 Completed: 08/08/19

Recommendation: The current fluid has normal viscosity and flash point. The distillation points are very close to the fresh oil. The acid number and solid contents are all low, meaning there is minimum fluid oxidation. The water content (1162ppm or 0.116%) is much higher than a typical heat transfer fluid (~300ppm). Please trouble shoot how the fluid is contaminated by the water.

Comments: Water contamination level is severely 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	%
07/11/19	08/07/19	0h		439 / 226	1161.9	31.4	0.159	0.051	696 / 369	797 / 425	899 / 482	1.23
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5



