

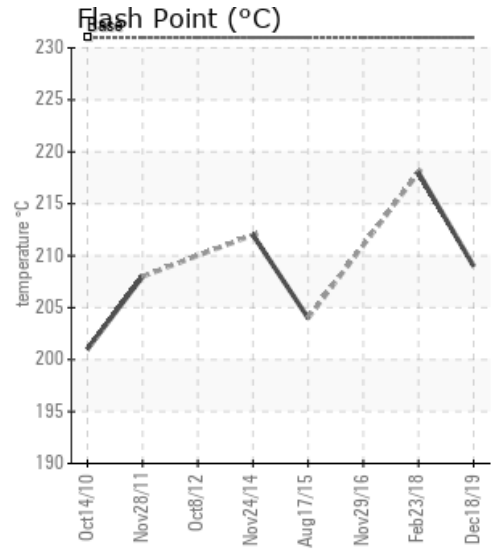
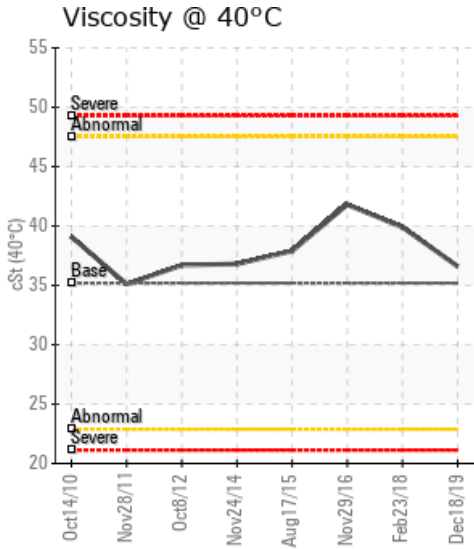
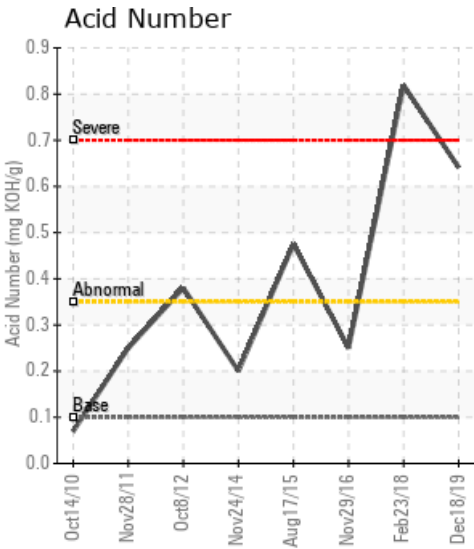
YONG SHUN PU U-4

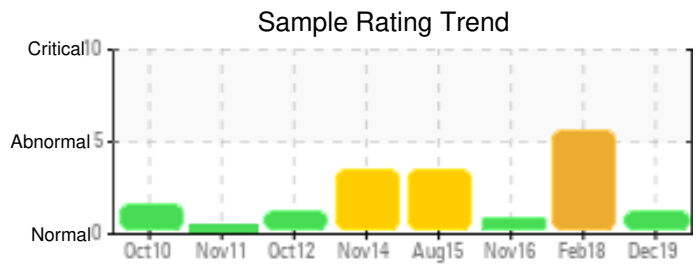
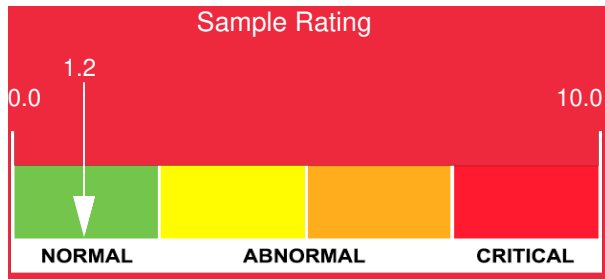
Customer: PTRHTF60007	System Information	Sample Information
CANADIAN RESOURCES INC 2F 71 CHONG CHING NORTH ROAD S C 3 TAIPEI, TAIWAN, PROVINC Attn: HUGO CHENG Tel: (886)225-853509 E-Mail: hugo@cdnresources.ca	System Volume: 5330 ltr Bulk Operating Temp: 419F / 215C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO HTF Make:	Lab No: 02329286 Analyst: Philip Riley Sample Date: 12/18/19 Received Date: 12/30/19 Completed: 01/20/20 Philip Riley philip.riley@petrocanadalsp.com

Recommendation: All key parameters within normal limits except for the Acid Number that has recovered slightly from the previous sample. Has there been any maintenance and change over on the fluid? There are no fluid hours/months listed so difficult to tell, please ensure these are included on all future samples. Please re-sample in 6 months

Comments: Acid Number (AN) is abnormally high.

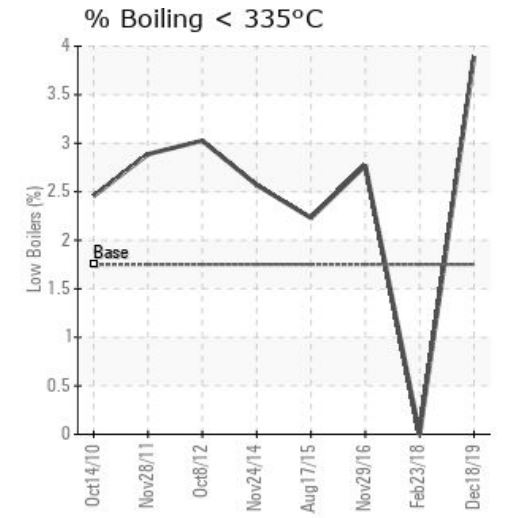
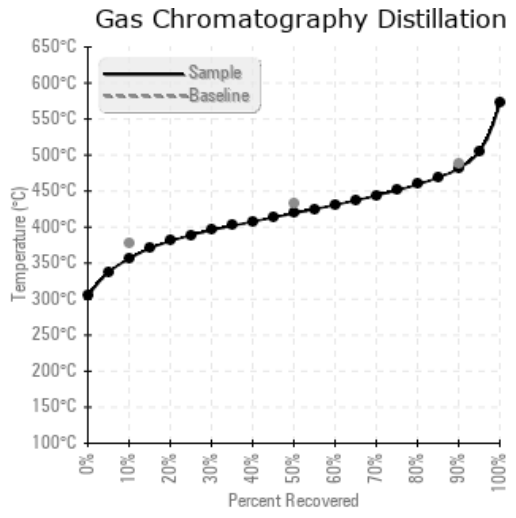
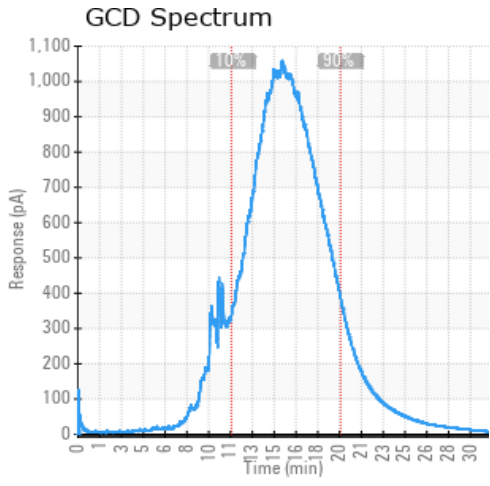
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
12/18/19	12/30/19	0h		408 / 209	15.6	36.6	0.641	0.356	673 / 356	786 / 419	898 / 481	3.89
02/23/18	03/07/18	0h		424 / 218	43.0	39.9	0.819	0.902	685 / 363	782 / 416	882 / 472	0.00
11/29/16	12/08/16	0h			32.4	41.8	0.25		683 / 362	810 / 432	939 / 504	2.77
08/17/15	08/21/15	0h		399 / 204	26.9	37.9	0.475	0.446	688 / 365	813 / 434	923 / 495	2.23
11/24/14	11/28/14	0h	U-4	414 / 212	10.8	36.8	0.20	0.425	679 / 359	803 / 429	925 / 496	2.57
Baseline Data				448 / 231		35.20	.1		712 / 378	810 / 432	910 / 488	1.75





Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
12/18/19	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	134	0
02/23/18	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116	0
11/29/16	13	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	4	0	112	2
08/17/15	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	115	0
11/24/14	8	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	125	0
Baseline Data			0	0						0			0	0					0				280	

Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



Historical Comments

02/23/18	The current fluid has high viscosity, TAN and solid contents because of the severe oxidation. Please take one sample in 6 months to monitor the conditions. The fluid hours are not reported, which definitely limit our interpretation. Please inform Yutong Gao at Petro-Canada for the detailed fluid hours.
11/29/16	Insufficient sample was received to conduct all the routine laboratory tests. The available test data show the current fluid has the moderate oxidation. But the fluid is OK for continual run and please take a sample in 12 months to monitor the conditions. Please remember to take about 600~700ml sample in the future.
08/17/15	The current fluid has normal viscosity, GCD and water. The higher TAN and Solid reading indicate a mild oxidation, but this fluid is suitable for further use. Please take one sample in one year to monitor the conditions. Please remember to provide the total fluid working hours when you send the future samples. Pentane Insolubles levels are abnormally high. Acid Number (AN) is abnormally high.
11/24/14	The current fluid has normal viscosity, TAN, GCD points and flash point. The high solid level might be due to the moderate oxidation. Normally, we need to know the fluid working hours to provide the comments, please take one sample in 6 months to monitor the conditions and provide the fluid working hours at the same time. Solid level is abnormally high.

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