

[KEYERA BRAZEAU RIVER GAS PLANT / 3-12-46-14W5] PLANT 1

Customer: PTRHTF30084

Keyera Partnership Brazeau River Ga...

Box 7318

Drayton Valley, AB T7A 1S5 CA

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System Information

System Volume: 14000 ltr

Bulk Operating Temp: 446F / 230C

CRITICAL

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO AF

Make: IAP HEATER

Sample Information

Lab No: 02588448 Analyst: Lyle Dach Sample Date: 10/10/23 Received Date: 10/11/23 Completed: 10/20/23

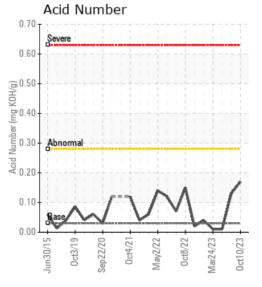
Lyle Dach

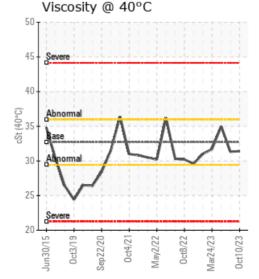
lyle.dach@HFSinclair.com

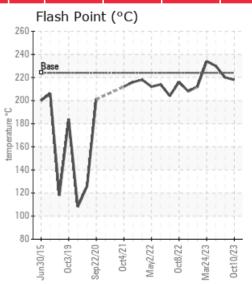
Recommendation: Sample results indicate that the fluid is in suitable condition for continued service. Resample in 12 months.

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	%
10/10/23	10/11/23	0.0m		424 / 218	22.1	31.4	0.17	0.136	706 / 374	805 / 429	901 / 483	1.50
07/10/23	07/19/23	24.0m	after main pump	428 / 220	29.5	31.3	0.13	0.052	703 / 373	803 / 428	898 / 481	2.18
03/24/23	04/05/23	0.0m	18-06	446 / 230	120.6	35.0	0.01	0.031	731 / 388	817 / 436	913 / 490	1.27
03/24/23	04/05/23	24.0m		453 / 234	13.7	31.7	0.01	0.028	725 / 385	808 / 431	902 / 483	1.41
03/04/23	03/13/23	20.0m		414 / 212	16.5	31.0	0.04	0.036	701 / 372	804 / 429	900 / 482	2.47
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5

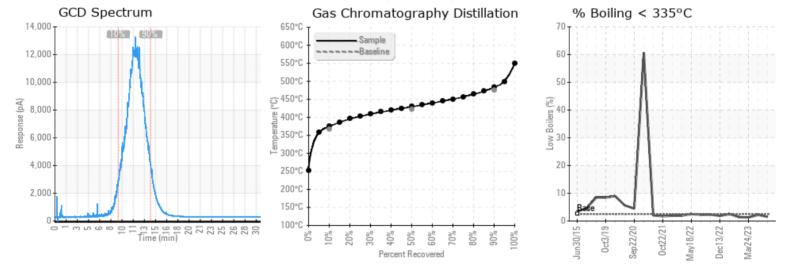








Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



Historical Comments							
07/10/23	Sample results indicate that the fluid is in suitable condition for continued service. Resample in 12 months. Sample color did get darker, looks similar to the March 4th sample.						
03/24/23	Fluid is in good condition overall. Sulfur, viscosity, 10% and 90% distillation are slightly high. Sample location could have affected the results, this sample was collected from the seal flush tank. Water content is low. (GCD) 10% Distillation Point is marginally high. (GCD) 90% Distillation Point is marginally high.						
03/24/23	Sample results indicate that the fluid is in very good condition and would be suitable for continued service. Water content is very low, 10% distillation of 385°C would be considered within spec of new fluid. Resample in 12 months. (GCD) 10% Distillation Point is marginally high.						
03/04/23	Fluid looks to be in very good condition and is suitable for continued use. Water content continues to drop, venting program appears to be working well. Resample in 6 months.						

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