

[KEYERA PARTNERSHIP / 3-12-46-14W5] PLANT 2

Customer: PTRHTF30084

Keyera Partnership Brazeau River Ga...

Box 7318

Drayton Valley, AB T7A 1S5 CA

Attn: Mike Sowada Tel: (780)805-0588

E-Mail: mike_sowada@keyera.com

System Information

System Volume: 14000 ltr

Bulk Operating Temp: 455F / 235C

Heating Source:

Blanket:

Fluid: PETRO CANADA CALFLO AF

Make: PETROTHERM ENG.

Sample Information

Lab No: 02615476 Analyst: Lyle Dach Sample Date: 02/03/24 Received Date: 02/13/24

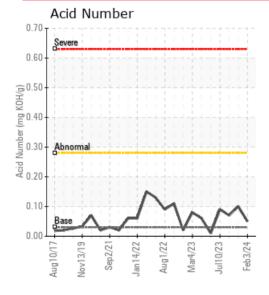
Completed: 02/22/24 Lyle Dach

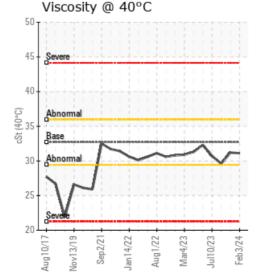
lyle.dach@HFSinclair.com

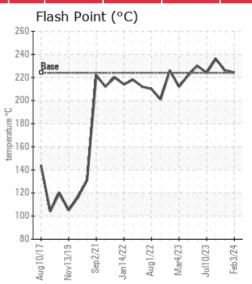
Recommendation: Sample results indicate that the fluid is in suitable condition for continued service. Resample in 12 months.

Comments:

Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	30D 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/ g	%wt	°F/°C	°F/°C	°F/°C	%
02/03/24	02/13/24	36.0m		435 / 224	30	31.1	0.05	0.043	701 / 372	803 / 428	899 / 482	2.42
11/30/23	12/08/23	0.0m	HOH #2 pump	439 / 226	21	31.2	0.10	0.026	676 / 358	787 / 420	915 / 491	5.08
10/01/23	10/11/23	40.0m	AFTER PUMP	457 / 236	27.7	29.6	0.07	0.061	697 / 370	799 / 426	899 / 482	2.52
07/10/23	07/19/23	24.0m	after main pump	435 / 224	28.9	30.7	0.09	0.044	704 / 373	804 / 429	899 / 482	2.03
03/24/23	04/05/23	24.0m	hoh2 18-60	446 / 230	5.4	32.3	0.01	0.080	701 / 372	798 / 425	901 / 483	1.13
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5

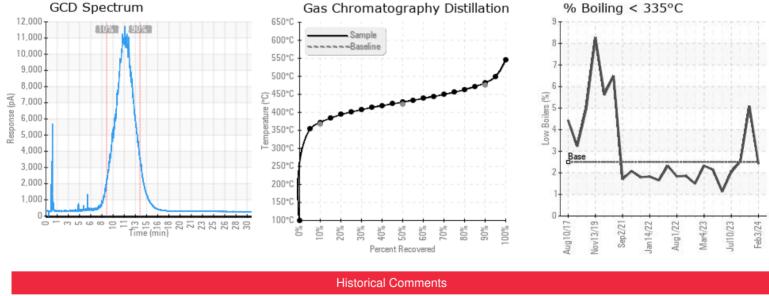








Elemental analysis results (above) in parts per million (ppm). [10,000 ppm = 1.0%]



	Historical Comments							
11/30/23	Sample results indicate that the fluid is in suitable condition for continued service. 90% distillation point is slightly elevated, confirm blanket gas is functioning properly as fluid oxidizing could cause the increase. Resample in 12 months. (GCD) 90% Distillation Point is abnormally high.							
10/01/23	Sample results indicate that the fluid is in suitable condition for continued service. Resample in 12 months.							
07/10/23	Sample results indicate that the fluid is in suitable condition for continued service. Resample in 12 months.							
03/24/23	Sample results indicate the fluid is in good condition, the color on this sample is brighter and clear it almost appears to be new fluid vs the other recent samples. This sample was collected from the seal pot tank. Water content is very low.							

Petro-Canada makes no representation or warranty of any kind, either express or implied, as to the accuracy or completeness of the analysis and assumes no responsibility and shall have no liability whatsoever with respect to such analysis, or a party's use of it. Petro-Canada is a division of HollyFrontier Corporation.