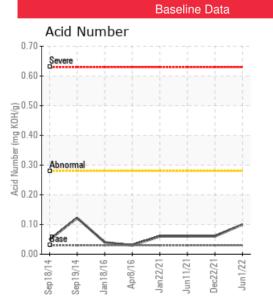


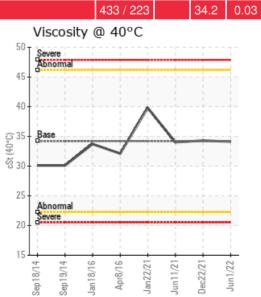
P.O. BOX 6808 EDSON, AB T7E 1L5 Canada Attn: Rodney Marcichiw Tel: (780)517-3542 E-Mail: rodney.marcichiw@cnrl.com System Volume: 17000 ltrLab No: 02495673Bulk Operating Temp: 500F / 260CAnalyst: Clinton BuhlerHeating Source:Sample Date: 06/01/22Blanket:Received Date: 06/20/22Fluid: PETRO CANADA PETRO-THERMCompleted: 06/28/22Make: ALCOClinton BuhlerClinton BuhlerClinton.Buhler@hollyfrontier.com

Recommendation: Sample results indicate that the fluid is in suitable condition for continued service. Please re-sample after 12 more months of fluid service.

Comments:

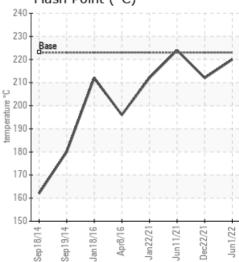
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/ g	%wt	°F/°C	°F/°C	°F/°C	%
06/01/22	06/20/22	4.0y	SITE GLASS	428 / 220	0.00	34.1	0.10	0.059	713 / 378	810 / 432	916 / 491	2.49
12/22/21	01/13/22	0.0y	Pump discharge	414 / 212	10.2	34.3	0.06	0.054	708 / 375	807 / 431	913 / 490	3.30
06/11/21	06/18/21	0.0y	PUMP DISCHARGE	435 / 224	2.0	34.0	0.06	0.056	717 / 381	810 / 432	915 / 491	1.65
01/22/21	01/27/21	0.0y		414 / 212	9.7	39.8	0.06	0.468	715 / 379	810 / 432	916 / 491	2.13
04/08/16	05/04/16	1.0y	1-24-52-20W5	385 / 196	2.2	32.1	0.03	0.054	711 / 377	808 / 431	916 / 491	2.06



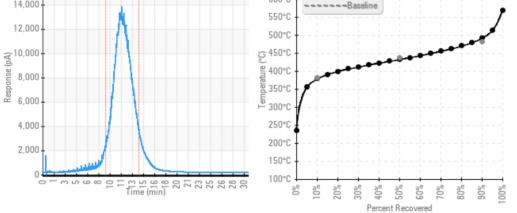


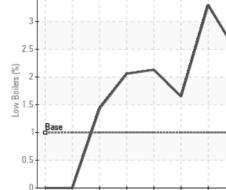
Flash Point (°C)

720 / 382 817 / 436 900 / 482 1.00









Apr8/16

Sep19/14

Sep18/14

Jan 18/16

Jun1/22 -

Jun11/21

Dec22/21

Jan22/21

Historical Comments

12/22/21	Sample results indicate that the fluid is in suitable condition for continued service. Please re-sample in 12 months
06/11/21	This fluid is in good condition and suitable for further use. Resample in 6 months.
01/22/21	The fluid is in a good condition but slightly elevated viscosity at 40C combined with a high 90% GCD temperature indicates the onset of oxidation. Please ensure the blanket gas system is in good working order. Pentane Insoluble (solids) content is getting close the reportable limit of 0.5%. Please consider fluid filtration in the near future. Resample in 12 months. Pentane Insolubles levels are abnormally high.
04/08/16	The fluid is in good condition and suitable for further use. Please re-sample in 12 months.

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