[STEEL REEF ALAMEDA PLANT / 16-08-4-3W2] HEAT MEDIUM

Customer: PTRHTF20185

STEEL REEF 16-08-04-03 W2

ALAMEDA, SK Canada Attn: Carter Zander Tel: (306)577-5237

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System Information

System Volume: 35000 ltr

Bulk Operating Temp: 414F / 212C

Heating Source:

Blanket:

Fluid: PETRO CANADA PETRO-THERM

Make: RUSHTON

Sample Information

Lab No: 02398420 Analyst: Kevin McDermott

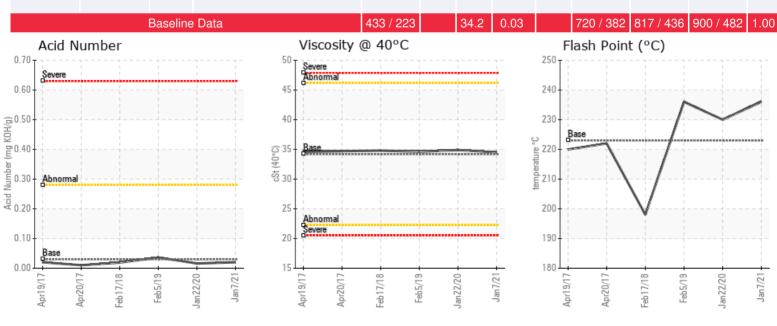
Sample Date: 01/07/21 Received Date: 01/19/21 Completed: 01/20/21 Kevin McDermott

kevin.mcdermott@petrocanadalsp.com

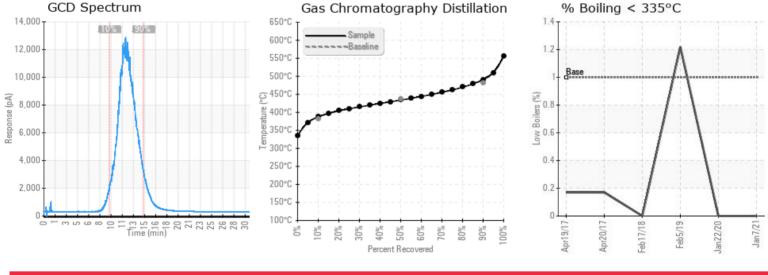
Recommendation: Fluid condition is excellent. Suggest to continue to submit fluid samples annually.

Comments:

Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	300 BCD 80%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/ g	%wt	°F/°C	°F/°C	°F/°C	%
01/07/21	01/19/21	2y	Tubing line of fltr	457 / 236	5.0	34.5	0.02	0.074	729 / 387	813 / 434	915 / 490	0.00
01/22/20	01/30/20	Зу	RETURN	446 / 230	0.00	34.9	0.016	0.051	732 / 389	801 / 427	897 / 480	0.00
02/05/19	02/12/19	Зу		457 / 236	3.1	34.6	0.036	0.010	695 / 369	785 / 419	889 / 476	1.22
02/17/18	01/23/18	17y		388 / 198	0.00	34.8	0.019	0.036	725 / 385	790 / 421	886 / 474	0.00
04/20/17	04/25/17	8y	OUTLET OF HM FILTER	432 / 222	19.6	34.7	0.01	0.039	721 / 383	811 / 433	916 / 491	0.17
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00







	Historical Comments							
01/22/20	Fluid condition remains excellent, with almost no change from the previous sample a year ago. Continue to submit annual samples to proactively monitor fluid condition.							
02/05/19	Fluid continues to be in very good condition, essentially no change since the previous sample Feb 2018. Suggest continue to submit annual samples to monitor fluid condition.							
02/17/18	Fluid condition remains excellent. Suggest submitting samples of used fluid annually to proactively monitor fluid condition. Sooner if fluid gets exposed to severe conditions.							
04/20/17	Fluid is in very good condition. Suggest annual sampling to proactively monitor the fluid condition - sooner if the fluid gets exposed to severe conditions.							

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