

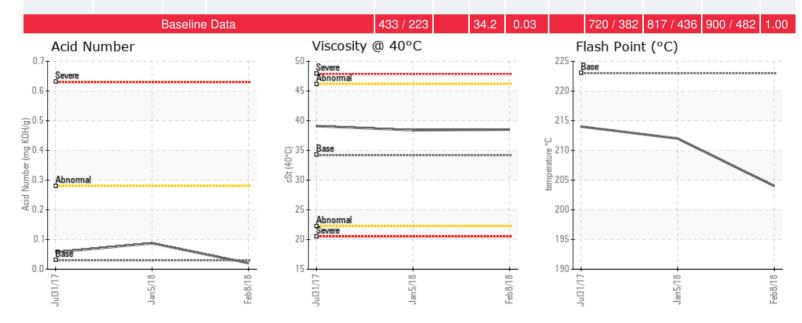
PRIMARY LOOP

Customer: PTRHTF20049	System Information	Sample Information
WEYERHAEUSER CO. LTD.	System Volume: 0 gal	Lab No: 02198973
HUDSON BAY OSB 2000	Bulk Operating Temp: Not Specified	Analyst: Ray Rolston
HIGHWAY 9 SOUTH PO BOX 40	Heating Source:	Sample Date: 02/08/18
HUDSON BAY, SK S0E 0Y0 Canada	Blanket:	Received Date: 02/15/18
Attn: SERVICE	Fluid: PETRO CANADA PETRO-THERM	Completed: 02/16/18
Tel:	Make:	To discuss this report contact Ray
E-Mail:		Rolston at (250)893-4496

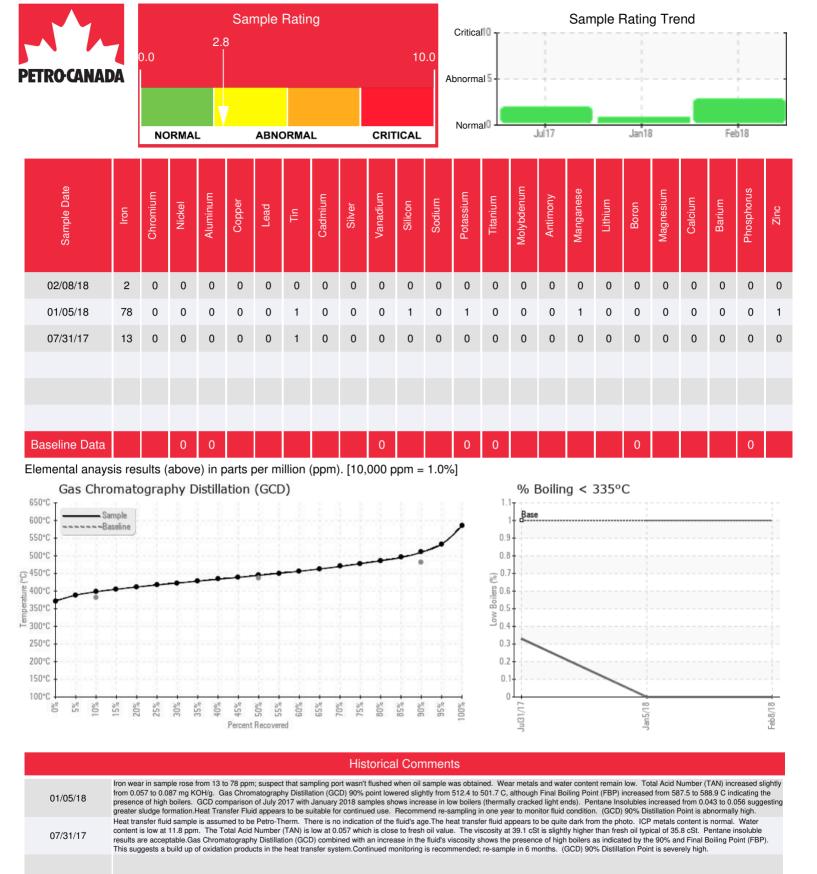
Recommendation: Iron wear at 1.9 ppm is back to normal level on this sample (Jan 2018 sample was 78 ppm). Wear metals, water content and TAN are normal. Viscosity and COC Flash Point are normal. GCD Distillation shows elevated Initial Boiling Point (371 vs 316 C) and 10% Distillation Point temperatures (398 vs 382 C), and elevated 90% Distillation Point (510 vs 482 C) and Final Boing Point temperatures (585 vs 542 C). Pentane Insolubles decreased from 0.056 to 0.042, similar to July 2017 value. Fluid is suitable for continued use. Re-sample in one year to monitor fluid condition.

Comments: (GCD) 90% Distillation Point is severely high. (GCD) 10% Distillation Point is marginally 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	%
02/08/18	02/15/18	17y		399 / 204	10.7	38.5	0.02	0.042	748 / 398	832 / 445	950 / 510	0.00
01/05/18	01/16/18	17y		414 / 212	18.3	38.4	0.087	0.056	715 / 380	811 / 433	935 / 502	0.00
07/31/17	08/08/17	0y		417 / 214	11.8	39.1	0.057	0.043	741 / 394	828 / 442	954 / 512	0.33



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