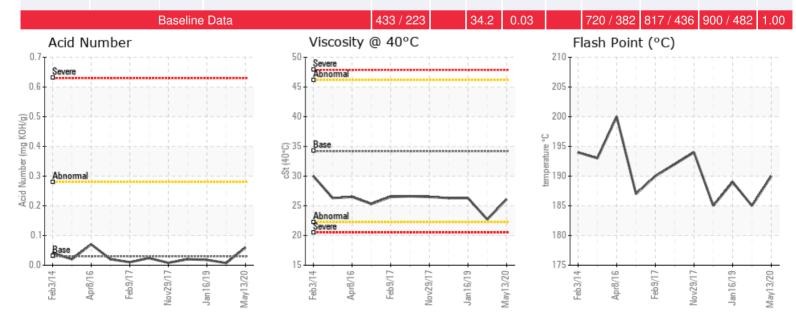


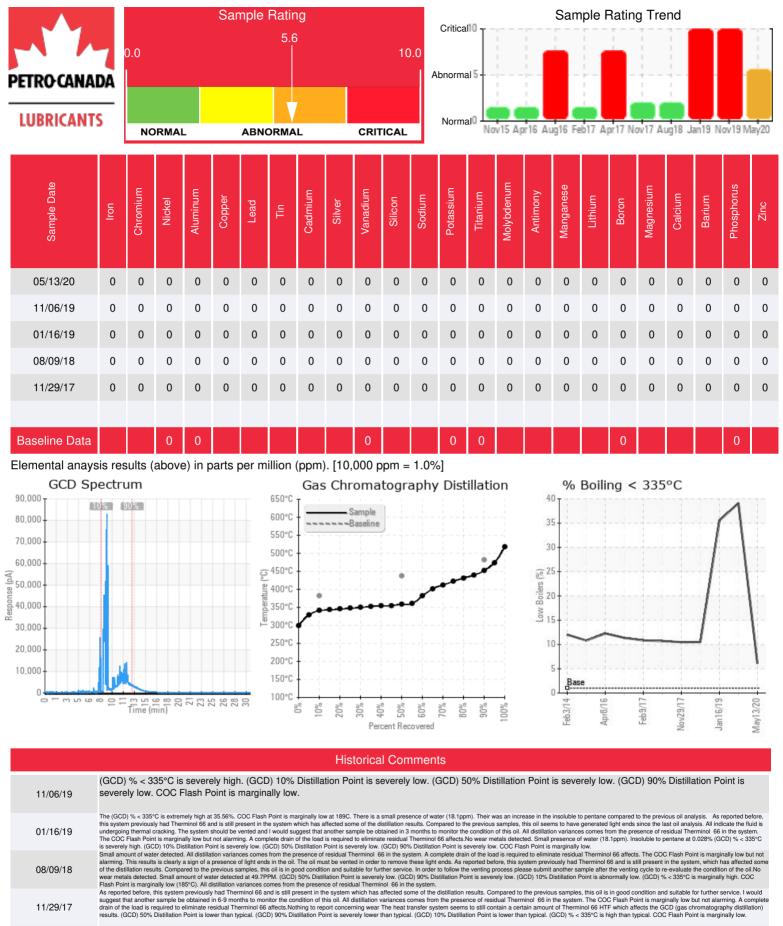
Customer: PTRHTF30073	System Information	Sample Information			
IRVING PAPER LTD	System Volume: 3500 ltr	Lab No: 02354830			
435 BAYSIDE DRIVE	Bulk Operating Temp: 536F / 280C	Analyst: Jean Lacharite			
SAINT JOHN, NB E2L 4K9 Canada	Heating Source:	Sample Date: 05/13/20			
Attn: Terry Tomney	Blanket:	Received Date: 05/20/20			
Tel: (506)650-8435	Fluid: PETRO CANADA PETRO-THERM	Completed: 06/09/20			
E-Mail: tomney.terry@irvingpaper.com	Make: METSO	Jean Lacharite			
		jean.lacharige@petrocanadalsp.com			

Recommendation: (GCD) 50% Distillation Point is severely low. (GCD) 90% Distillation Point is severely low. (GCD) 10% Distillation Point is abnormally low. COC Flash Point is marginally low. no presence of iron. Pentane insolubles increase but stay in limit. Graphic 5/13/2020, low boiler are present and level is high, large boilers are present and level is high, the Heat Transfer oil look to be heavily cracked.i recommand to change it, restart with a new heat transfer oil. flush, clean with cleaner, rinse and restart with a new heat transfer oil.

Comments: (GCD) 50% Distillation Point is severely low. (GCD) 90% Distillation Point is severely low. (GCD) 10% Distillation Point is abnormally low. COC Flash Point is marginally low.

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	%
05/13/20	05/20/20	7у	MANIFOLD	374 / 190	31.1	26.1	0.06	0.117	646 / 341	677 / 358	845 / 452	6.07
11/06/19	11/12/19	6у	manifold	<mark>365 / 185</mark>	16.4	22.7	0.007	0.043	615 / 324	643 / 340	797 / 425	39.10
01/16/19	01/22/19	0y		<u>372 / 189</u>	18.1	26.3	0.018	0.028	613 / 323	645 / 340	812 / 434	35.56
08/09/18	08/15/18	5у	MANIFOLD FROM SYS	<u>365 / 185</u>	49.7	26.3	0.020	0.009	634 / 334	662 / 350	830 / 443	10.49
11/29/17	12/05/17	584y		381 / 194	56.4	26.5	0.008	0.035	634 / 334	667 / 353	869 / 465	10.47





11/29/17

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