

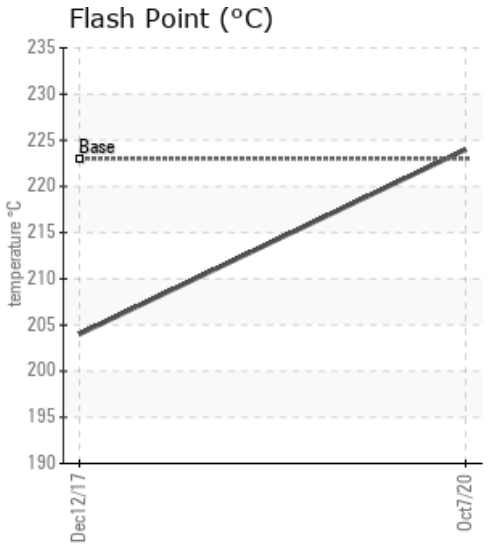
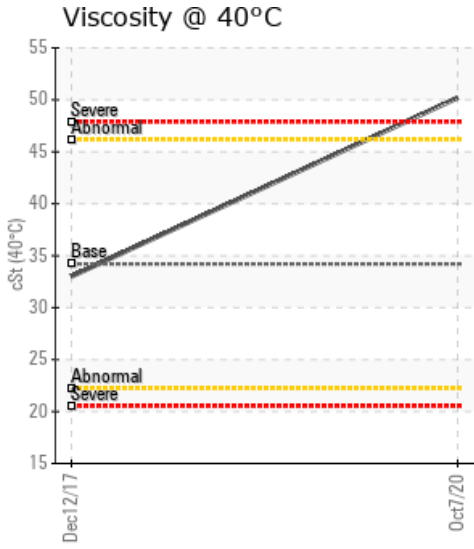
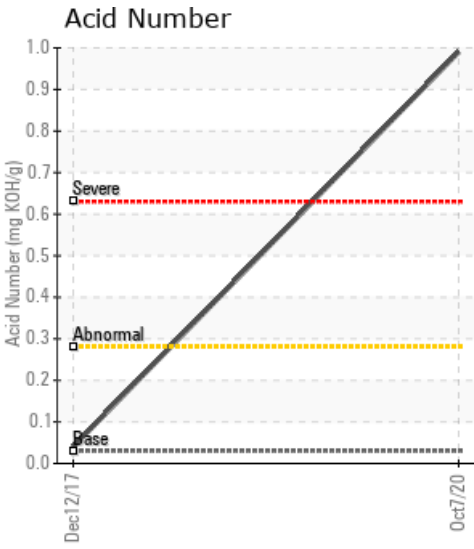
## [2-25-38-9W5] Z-530 REFRIDGE

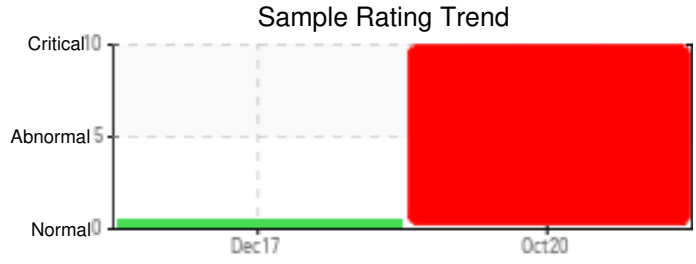
Customer: PTRHTF20192	System Information	Sample Information
Petrus Resources Corp 2400, 240 – 4th Avenue S.W. 02-25-38-9W5 Rocky Mountain House Calgary, AB T2P 4H4 Canada Attn: Jamin Severson Tel: (403)844-0600 E-Mail: jseverson@petrusresources.com	System Volume: 13000 ltr Bulk Operating Temp: 464F / 240C Heating Source: Blanket: Fluid: PETRO CANADA PETRO-THERM Make: ALCO	Lab No: 02380382 Analyst: Terry Veenstra Sample Date: 10/07/20 Received Date: 10/08/20 Completed: 10/13/20 Terry Veenstra terry.veenstra@petrocanadalsp.com

Recommendation: Viscosity is very high. Acid number is very high. Pentane Insolubles are very high. Sample location shows that it was taken from a bottom drain. This may not be representative of the fluid in the system. Suggest resampling in a location where oil is flowing.

Comments: Iron ppm levels are severe. PQ levels are severe. Pentane Insolubles levels are severely high. Acid Number (AN) is severely high. Visc @ 40°C is severely high.

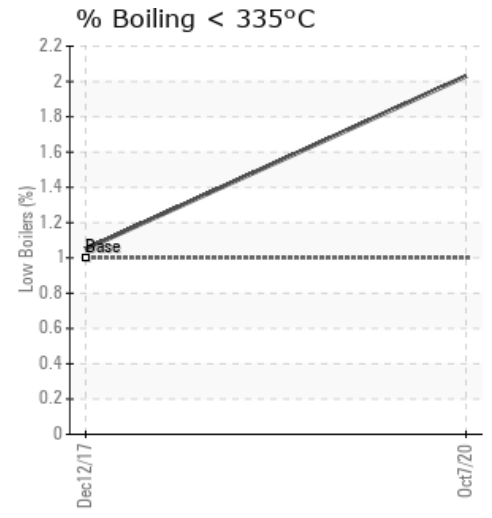
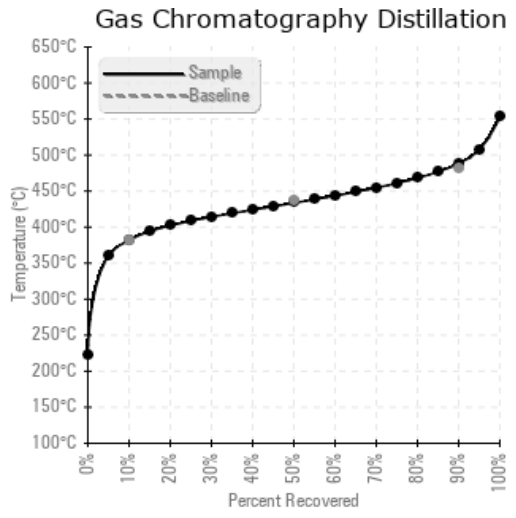
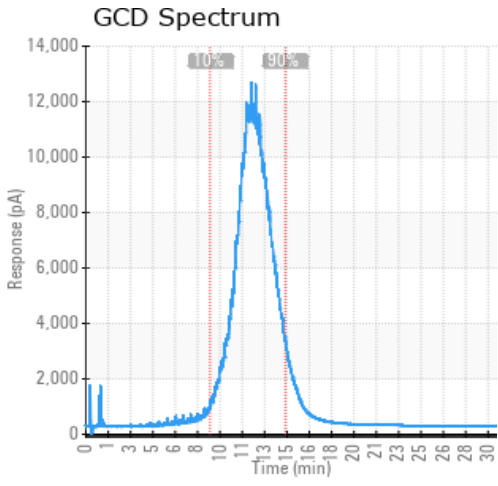
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
10/07/20	10/08/20	5y	Bottom Drain	435 / 224	156.0	50.2	0.99	2.44	719 / 382	812 / 434	911 / 488	2.03
12/12/17	12/22/17	2y		399 / 204	9.3	33.0	0.04	0.239	720 / 382	816 / 436	913 / 490	1.05
Baseline Data				433 / 223		34.2	0.03		720 / 382	817 / 436	900 / 482	1.00





Sample Date	Iron	Chromium	Nickel	Aluminum	Copper	Lead	Tin	Cadmium	Silver	Vanadium	Silicon	Sodium	Potassium	Titanium	Molybdenum	Antimony	Manganese	Lithium	Boron	Magnesium	Calcium	Barium	Phosphorus	Zinc
10/07/20	587	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	6	0	0	0	0	0	0	0
12/12/17	7	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Baseline Data			0	0						0		0	0				0					0		

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



### Historical Comments

12/12/17	This sample is in god condition and oil is good for continued use. Resample in 12 months.

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