

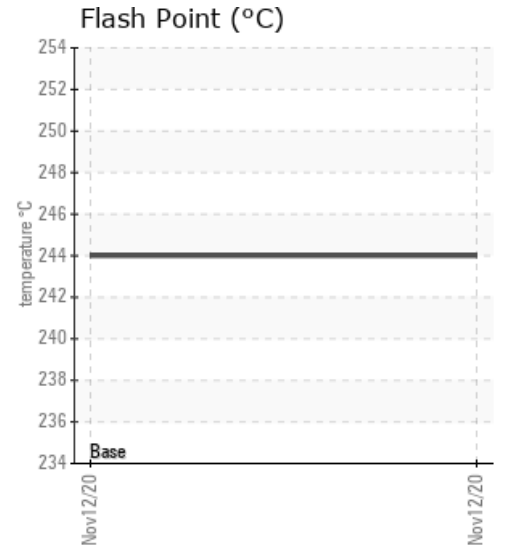
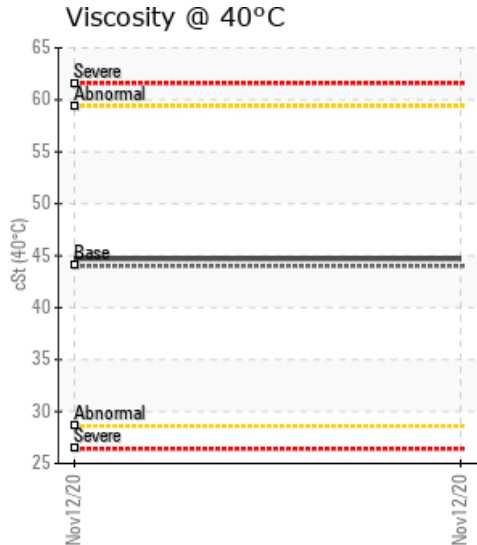
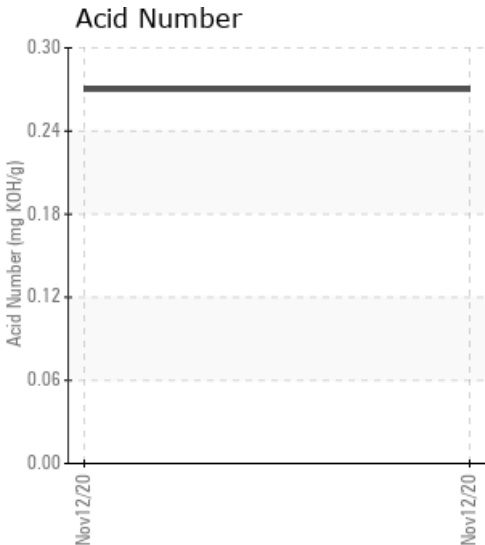
## YAKIMA PLANT

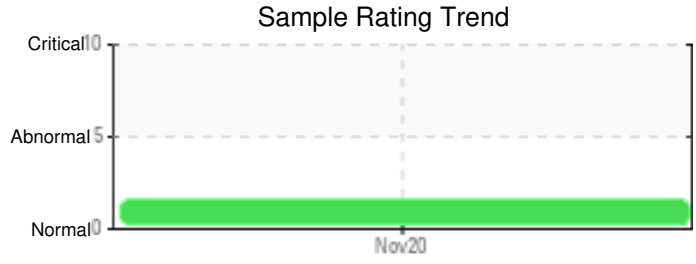
Customer: PTRHTF10241	System Information	Sample Information
Central Washington Asphalt 250 Cowan Lane Wapato, WA 98951 USA Attn: Doven Bender Tel: E-Mail:	System Volume: 220 gal Bulk Operating Temp: 350F / 177C Heating Source: Blanket: Fluid: VALVOLINE R&O HYDRAULIC OIL 46 Make:	Lab No: 02395263 Analyst: Ron LeBlanc Sample Date: 11/12/20 Received Date: 12/30/20 Completed: 01/05/21 Ron LeBlanc Ronald.LeBlancSr@petrocanadalsp.com

Recommendation: Sample appears normal except for zinc and calcium levels. Possible contamination from a hydraulic oil. Resample at normal interval of 6 months.

Comments: Zinc ppm levels are severely high. Calcium ppm levels are abnormally high.

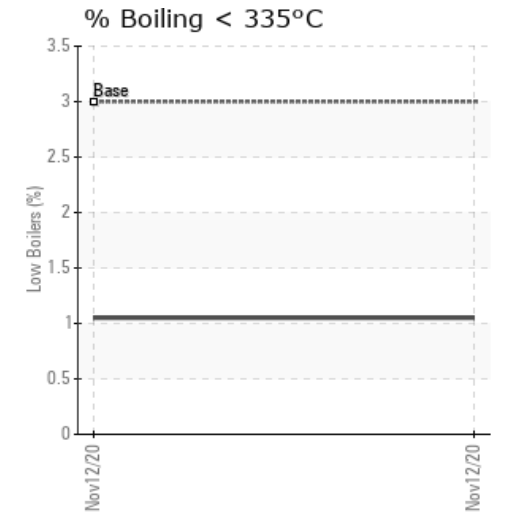
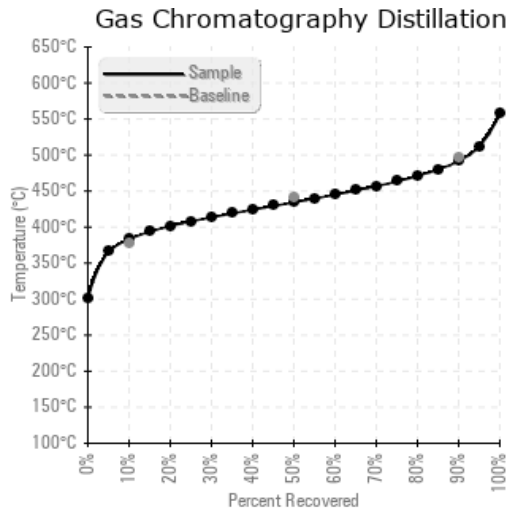
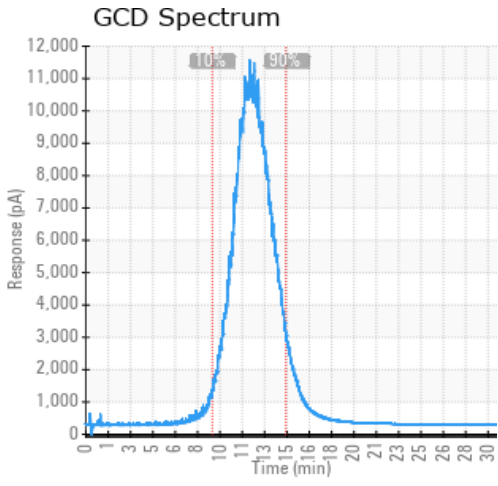
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
11/12/20	12/30/20	10y		471 / 244	122.0	44.7	0.27	0.070	721 / 383	814 / 434	917 / 492	1.05
Baseline Data				410 / 210		44			711 / 377	824 / 440	927 / 497	3





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
11/12/20	91	0	0	0	5	0	0	0	0	0	2	2	1	0	0	0	1	0	2	5	35	1	50	50
Baseline Data			0	0						0			0	0				0	0				0	

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



### Historical Comments


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