

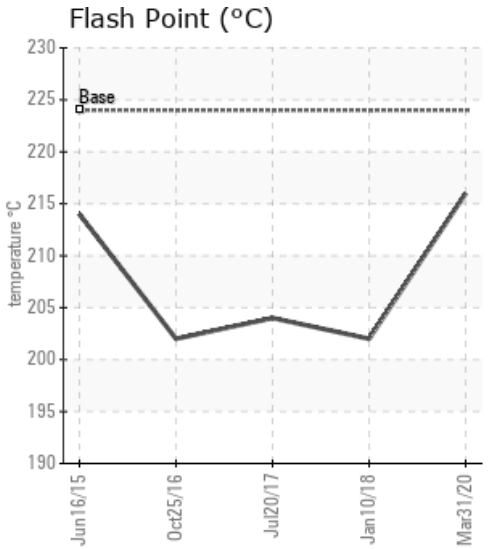
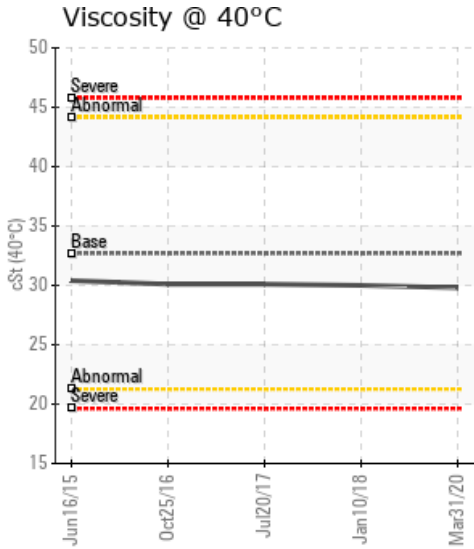
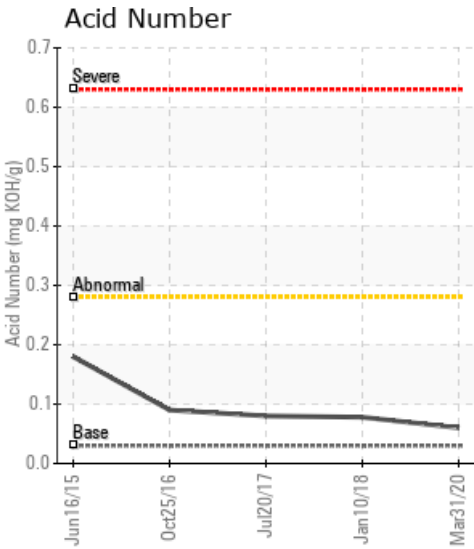
LINE 3

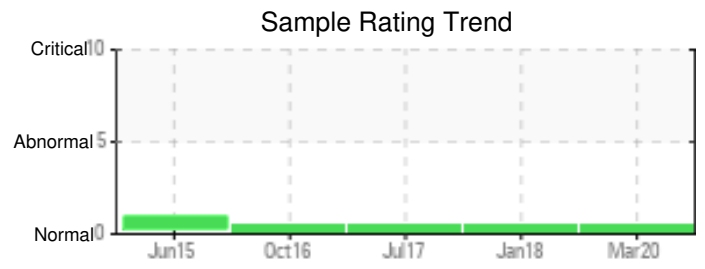
Customer: PTRHTF60002	System Information	Sample Information
BOYNE SMELTERS LTD-RIO TINTO HANDLEY DRIVE QUEENSLAND BOYNE ISLAND, QUE 4680 AUSTRALIA Attn: Heath Mitchell Tel:	System Volume: 1500 ltr Bulk Operating Temp: 419F / 215C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make:	Lab No: 02363207 Analyst: Philip Riley Sample Date: 03/31/20 Received Date: 07/07/20 Completed: 07/10/20 Philip Riley philip.riley@petrocanadalsp.com

Recommendation: All parameters meet specification with no concerns. Please resample at normal frequency

Comments:

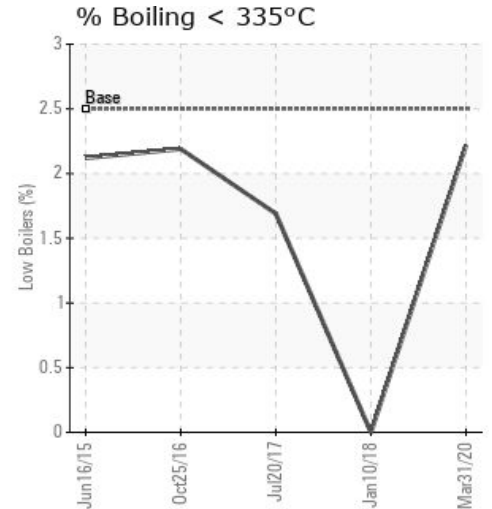
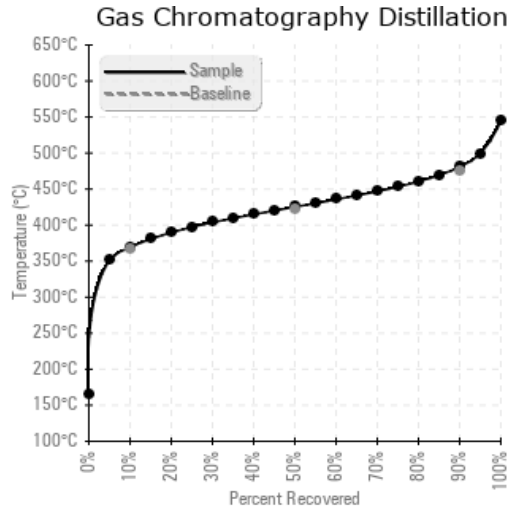
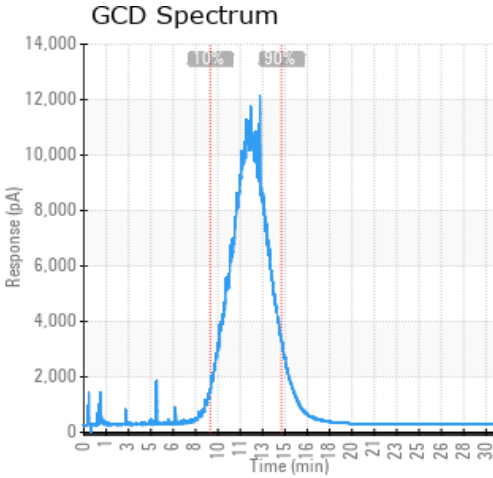
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
03/31/20	07/07/20	20y	NEAR RETURN	421 / 216	19.2	29.8	0.06	0.161	697 / 369	798 / 425	898 / 481	2.22
01/10/18	01/23/18	10y		396 / 202	2.6	30.0	0.078	0.038	691 / 366	784 / 418	888 / 476	0.00
07/20/17	09/06/17	20y	RETURN B4 GAS BURNER	399 / 204	31.3	30.1	0.080	0.044	697 / 370	801 / 427	897 / 480	1.69
10/25/16	11/04/16	10y	RTRN LN BFR GAS BURN	396 / 202	48.3	30.1	0.090	0.055	687 / 364	790 / 421	889 / 476	2.19
06/16/15	07/02/15	15y	L3 AFTER PUMPS	417 / 214	26.1	30.4	0.18	0.024	692 / 367	800 / 427	908 / 487	2.12
Baseline Data				435 / 224		32.7	0.03		693 / 367	790 / 421	887 / 475	2.5





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	
03/31/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	
01/10/18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0
07/20/17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0
10/25/16	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	14	0
06/16/15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0
Baseline Data			0	0						0		0	0						0					270	

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



Historical Comments	
01/10/18	The current fluid condition is very similar to the last sample in July 2017. The fluid has normal viscosity, flash point and distillation point. The water and solid contamination is low. Please continue to run this fluid and take one sample in 12 months.
07/20/17	The current fluid has normal viscosity, flash point, acid number and distillation points. It is suitable for further use. Please take one sample in one year to monitor the conditions.
10/25/16	The fluid conditions are very good. The GCD, viscosity, flash point, acid number are all normal. Please take one sample in one year to monitor the conditions.
06/16/15	The current fluid has normal viscosity, flash point, water & solid level. It is suitable for further use. Please take one sample in one year to monitor the conditions.

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