

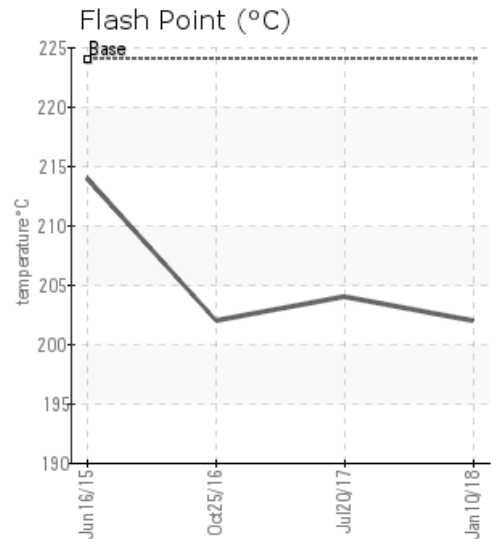
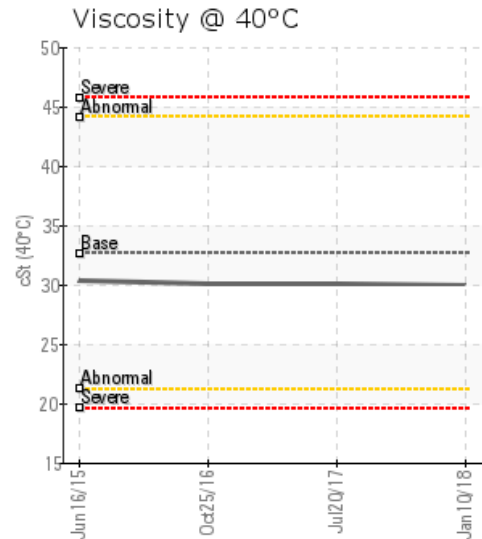
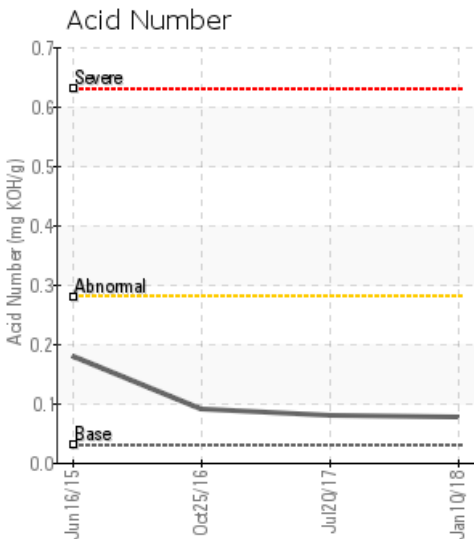
LINE 3

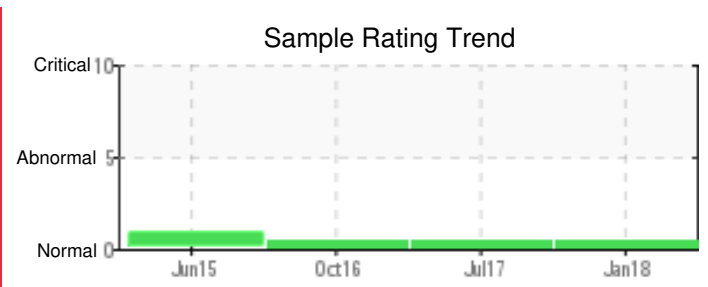
Customer: PTRHTF60002	System Information	Sample Information
BOYNE SMELTERS LTD-RIO TINTO HANDLEY DRIVE QUEENSLAND BOYNE ISLAND, QUE 4680 AUSTRALIA Attn: Simon Spencer Tel: (042)744-6575	System Volume: 0 ltr Bulk Operating Temp: 419F / 215C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make:	Lab No: 02194230 Analyst: Yutong Gao Sample Date: 01/10/18 Received Date: 01/23/18 Completed: 01/25/18 To discuss this report contact Yutong Gao at (403)873-1876

Recommendation: 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.

Comments:

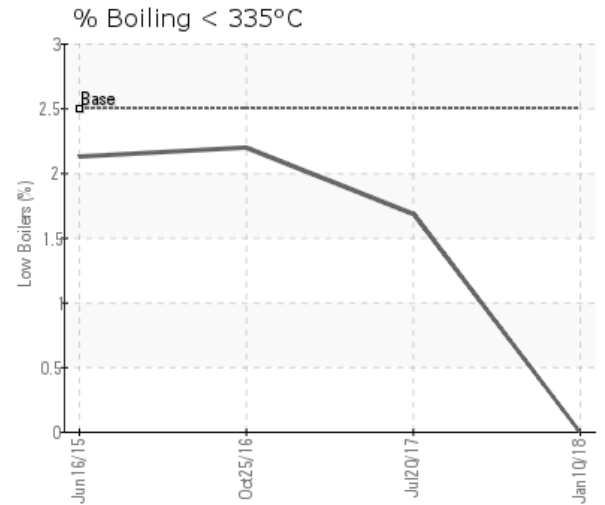
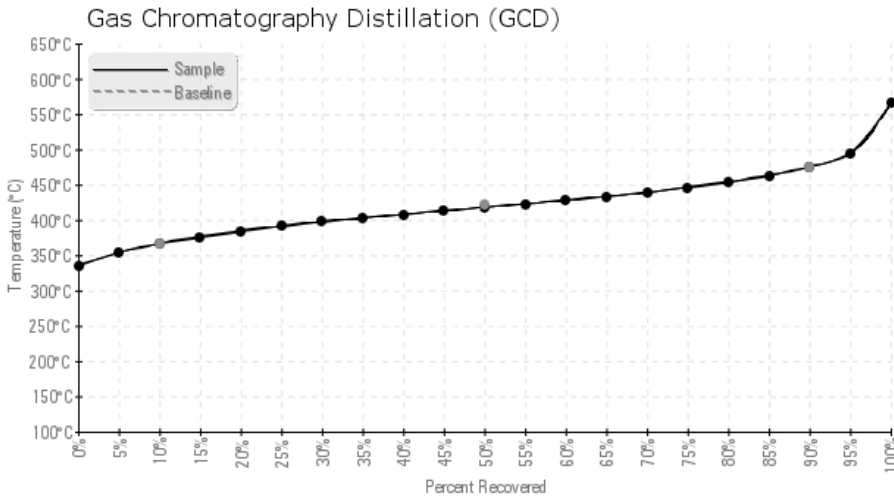
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
01/10/18	01/23/18	10y		396 / 202	2.6	30.0	0.078	0.038	691 / 366	784 / 418	888 / 476	0.00
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
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	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	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	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	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	
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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