

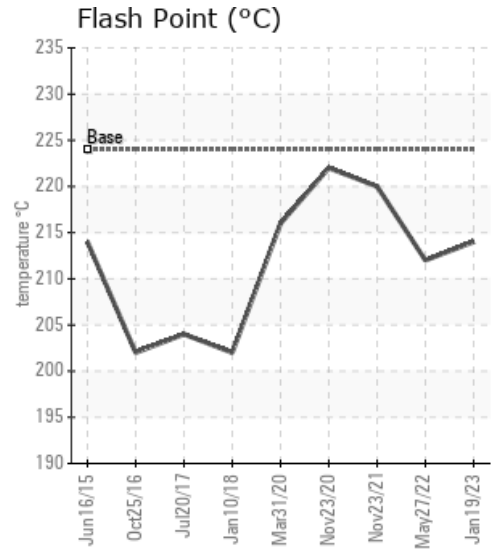
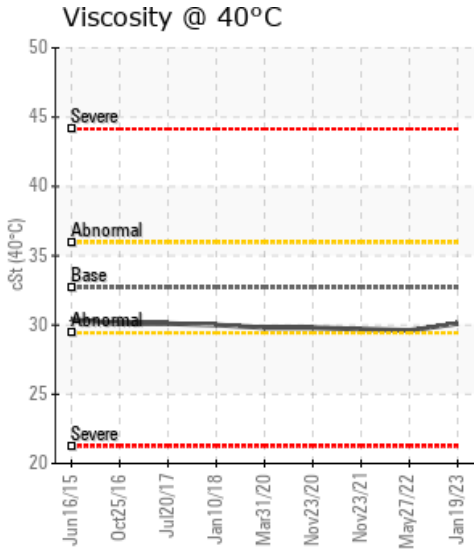
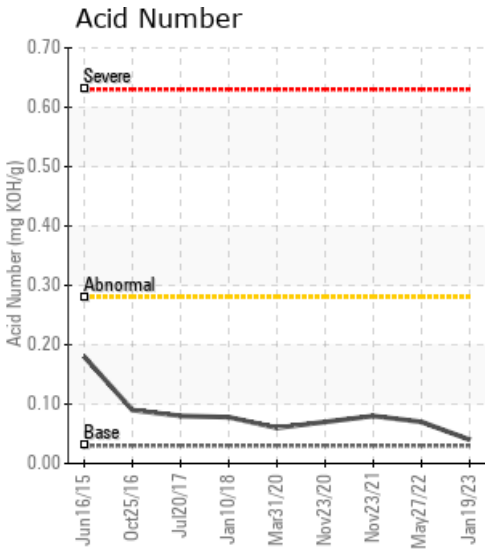
LINE 3

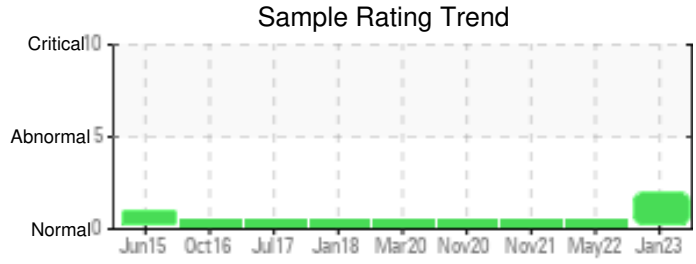
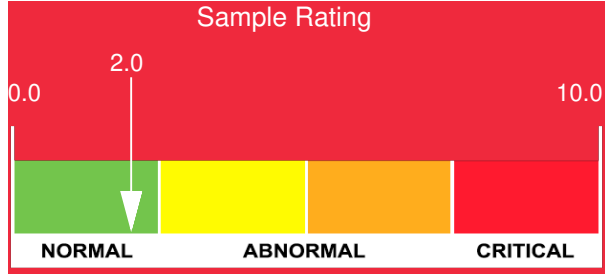
Customer: PTRHTF60002	System Information	Sample Information
BOYNE SMELTERS LTD-RIO TINTO HANDLEY DRIVE QUEENSLAND BOYNE ISLAND, QUE 4680 AUSTRALIA Attn: Heath Mitchell Tel:	System Volume: 1500 ltr Bulk Operating Temp: 419F / 215C Heating Source: Blanket: Fluid: PETRO CANADA CALFLO AF Make:	Lab No: 02539380 Analyst: Philip Riley Sample Date: 01/19/23 Received Date: 02/14/23 Completed: 02/21/23 Philip Riley philip.riley@HFSinclair.com

Recommendation: All parameters test within normal limits. Fluid fit for further use, please resample at normal frequency

Comments:

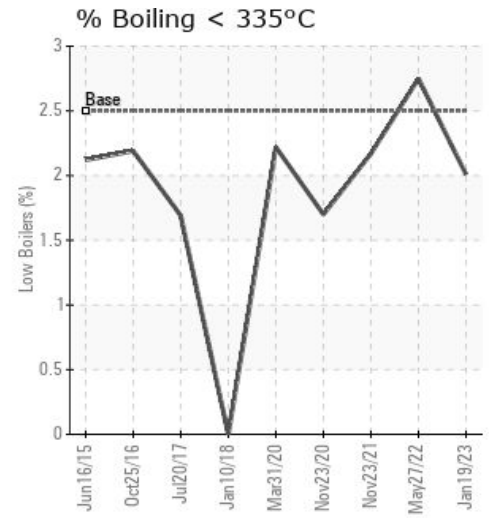
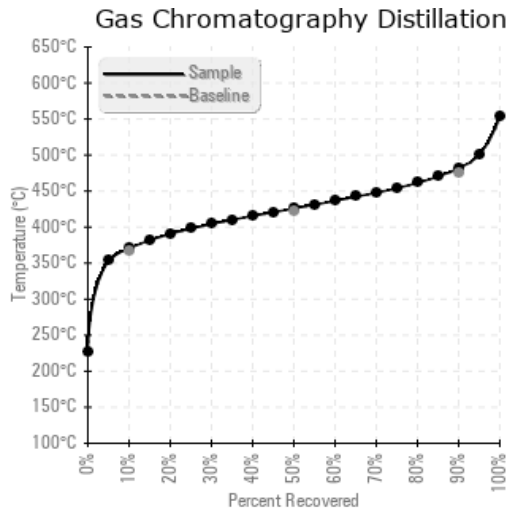
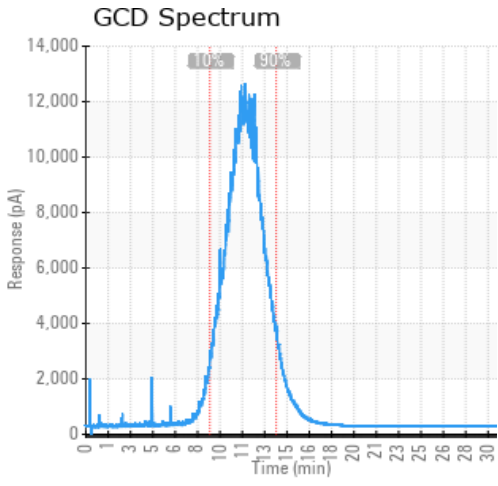
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
01/19/23	02/14/23	25.0y	near heater	417 / 214	8.3	30.1	0.04	0.052	699 / 370	799 / 426	899 / 482	2.01
05/27/22	06/07/22	0.0y		414 / 212	14.3	29.6	0.07	0.034	694 / 368	797 / 425	899 / 482	2.75
11/23/21	12/07/21	0.0y		428 / 220	11.4	29.7	0.08	0.077	696 / 369	797 / 425	898 / 481	2.17
11/23/20	12/17/20	20.0y	rtrn b4 gas burner	432 / 222	23.7	29.8	0.07	0.074	698 / 370	798 / 425	899 / 482	1.70
03/31/20	07/07/20	20.0y	NEAR RETURN	421 / 216	19.2	29.8	0.06	0.161	697 / 369	798 / 425	898 / 481	2.22
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	
01/19/23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	
05/27/22	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	17	0
11/23/21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	
11/23/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	
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	
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

05/27/22	All parameters meet expected criteria. Please sample at normal frequency
11/23/21	Oil in good condition and fit for further use. Meets all expected parameters. Please resample at normal frequency
11/23/20	Unlike the sample from line 1/2, this fluid looks to be in overall good condition. I note the different operating temperatures and this will influence that for sure, with this product operating 50C lower. There is a little evidence of cracking on the GCD curve but nothing substantial. The fluid meets all parameters expected and is fit for further use.
03/31/20	All parameters meet specification with no concerns. Please resample at normal frequency

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