

410 HX 001

Customer: PTRHTF30002
 Alcoa - Aluminerie Deschambeau
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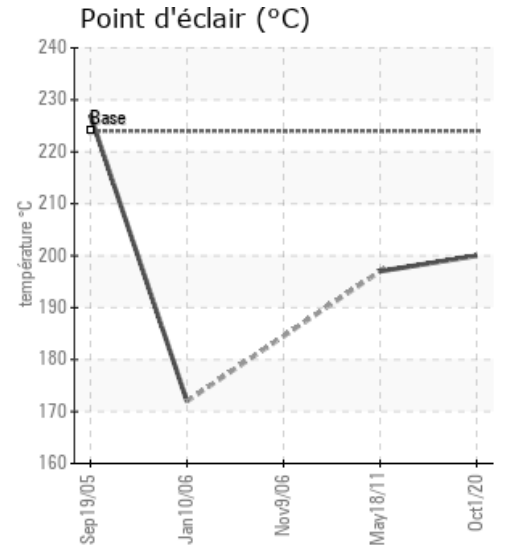
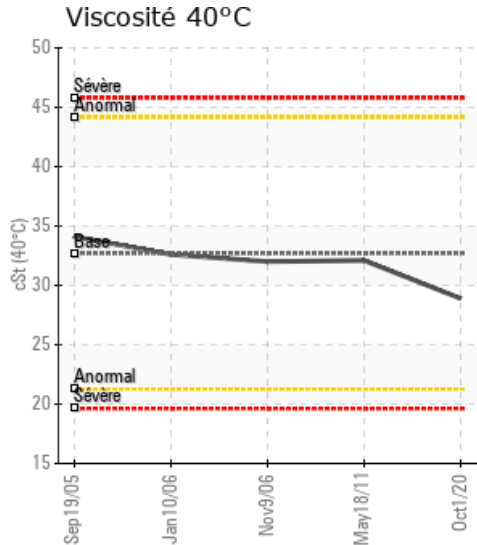
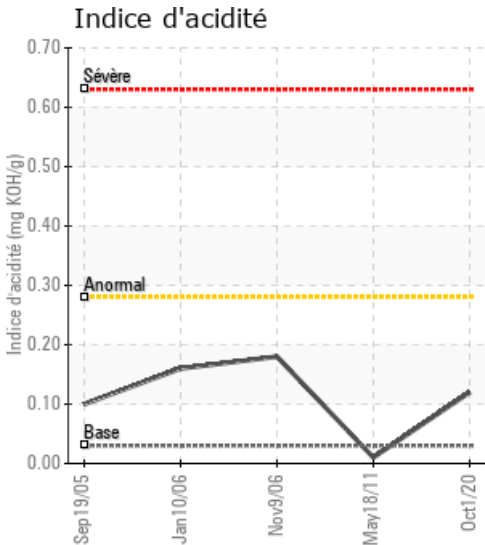
System Information
 System Volume: 9500 ltr
 Bulk Operating Temp: 249F / 121C
 Heating Source:
 Blanket:
 Fluid: PETRO CANADA CALFLO AF
 Make:

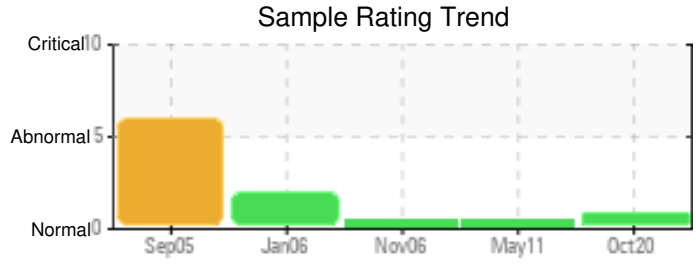
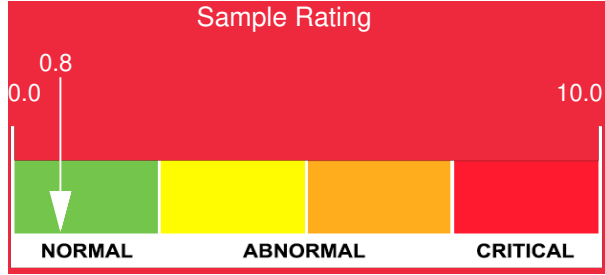
Sample Information
 Lab No: 02380379
 Analyst: Pierre Castagne
 Sample Date: 10/01/20
 Received Date: 10/08/20
 Completed: 11/25/20
 Pierre Castagne
 pierre.castagne@hollyfrontier.com

Recommendation: On remarque une légère présence de soufre, une baisse de la viscosité. Une légère augmentation des solides (Pentane Insolubles). Nous soupçonnons une très faible contamination avec un autre fluide soit lors d'un transvasage (fluide restant dans le mécanisme de transfert) ou lors d'une intervention sur le système.

Comments:

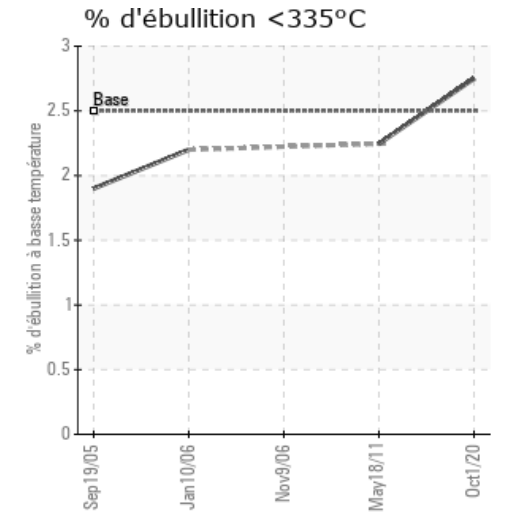
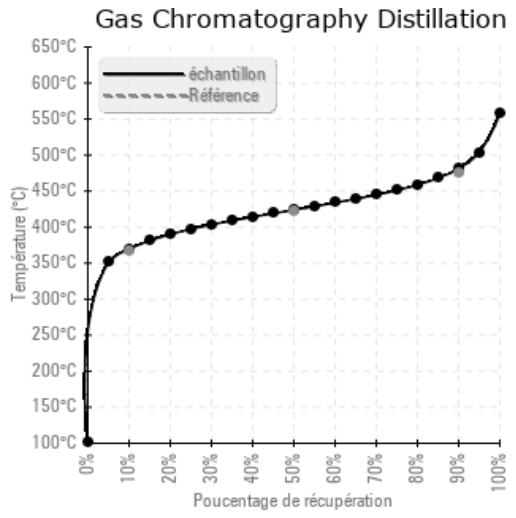
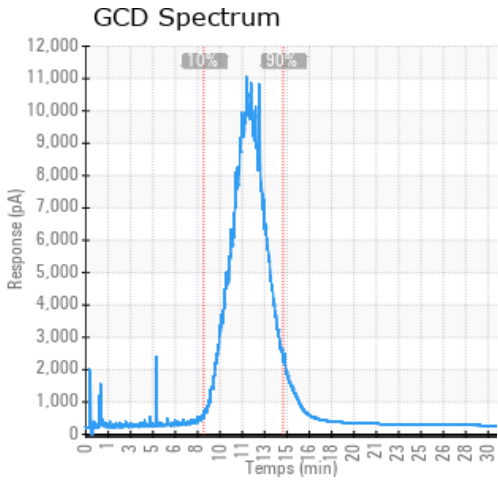
Sample Date	Received Date	Fluid Age	Sample Location	Flash Point (COC)	Water (KF)	Viscosity (40°C)	Acid Number	Solids	GCD 10%	GCD 50%	GCD 90%	GCD % < 335°C
	mm/dd/yy			°F/°C	ppm	cSt	mg/KOH/g	%wt	°F/°C	°F/°C	°F/°C	%
10/01/20	10/08/20	2.0y	Btwn pump and furnac	392 / 200	28.8	28.9	0.12	0.054	697 / 370	795 / 424	898 / 481	2.75
05/18/11	05/24/11			387 / 197	61	32.1	0.01	0.015	695 / 368	794 / 423	891 / 477	2.246
11/09/06	11/23/06					32	0.18					
01/10/06	01/16/06			342 / 172	70	32.6	0.16		696 / 369		885 / 474	2.2
09/19/05	11/07/05			441 / 227	34	34.1	0.1		696 / 369		883 / 473	1.9
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
10/01/20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	2
05/18/11	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	70	0
11/09/06	0	0	0	0	0	0	0	0	0	0	2	0		0	0		0		0	0	0	0	49	0
01/10/06	0	0	0	0	0	0	0	0	0	0	5	31		0	0		0		0	0	0	0	47	0
09/19/05	5	0	0	0	0	0	0	0	0	0	3	101		0	0		0		0	2	0	178	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

05/18/11	
11/09/06	
01/10/06	
09/19/05	

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