

PASTE PLANT 2 HTF

Customer: PTRHTF60012	System Information	Sample Information
TOMAGO ALUMINIUM COMPANY	System Volume: 0 gal	Lab No: 02232583
638 TAMAGO ROAD, TOMAGO	Bulk Operating Temp: 225F / 107C	Analyst: Yutong Gao
NEW SOUTH WALES	Heating Source:	Sample Date: 07/20/18
NEWCASTLE, 2324 Australia	Blanket:	Received Date: 08/08/18
Attn: KATE MANGAN/MAGALI GENDRE	Fluid: PETRO CANADA CALFLO AF	Completed: 08/29/18
Tel: 249667018	Make:	To discuss this report contact Yutong
E-Mail: kate.mangan@tomago.com.au		Gao at (403)873-1876

Recommendation: The current fluid has a moderate oxidation, however it is suitable for further operation. The solid content is high due to the fluid oxidation or third party contamination. The 96ppm Fe reading is also a concern because the system should not have wears and tears. Please continue to run the fluid and take one sample in 6 months to monitor the conditions. Please make sure to flush the sampling line well enough before taking the representative samples.

Comments: Iron ppm levels are noted. Solid levels are high. Acid Number (AN) is abnormally high. (GCD) 90% Distillation Point is marginally 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	%
07/20/18	08/08/18	0c		432 / 222	28.2	34.9	0.31	0.718	701 / 372	798 / 425	906 / 486	0.18
06/01/17	08/08/17	0c	HEATER ROOM	417 / 214	48.5	32.9	0.458	0.233	755 / 402	819 / 437	916 / 491	0.23
12/09/15	12/29/15	0c		430 / 221	93.3	31.4	0.281	0.092	707 / 375	798 / 426	891 / 477	0.00
06/15/12	07/03/12			437 / 225	60	29.9	0.17	0.048	684 / 362	793 / 423	896 / 480	3.3



Report ID: [02232583] (Generated: 08/29/2018 17:43:15) - Page 1 - Copyright 2018 Wearcheck Inc. All Rights Reserved.



06/01/17	The current fluid has moderate oxidation, so that the AN number and GCD 10%, 50% and 90% have been increased. However, the fluid is still suitable for use. Please take one sample in 12 months to monitor the conditions.
12/09/15	Acid Number (AN) is abnormally high, which indicates the moderate oil oxidation. All other oil properties are normal. Please take one sample in 12 months to monitor the fluid conditions.
06/15/12	The oil condition is normal. We have updated the system volume and operating temperatures.

Petro-Canada makes no representation or warranty of any kind, either express or implied, as to the accuracy or completeness of the analysis and assumes no responsibility and shall have no liability whatsoever with respect to such analysis, or a party's use of it. Petro-Canada is a division of HollyFrontier Corporation.