



OIL ANALYSIS REPORT

WEAR	MARGINAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
1 White Oil/028 #1HTU/B Blower/Fan/203 Induced Draft Fan

Machine Id
N/A 28B203 ID FAN FOR E236 AIR PREHEATER

Component
Inboard Bearing

Fluid
PETRO CANADA TURBOFLO 68 (2 LTR)

RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

WEAR

Lead ppm levels are marginal. All other component wear rates are normal.

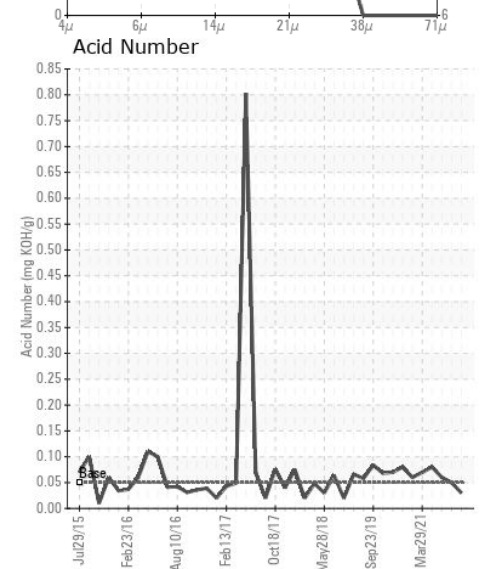
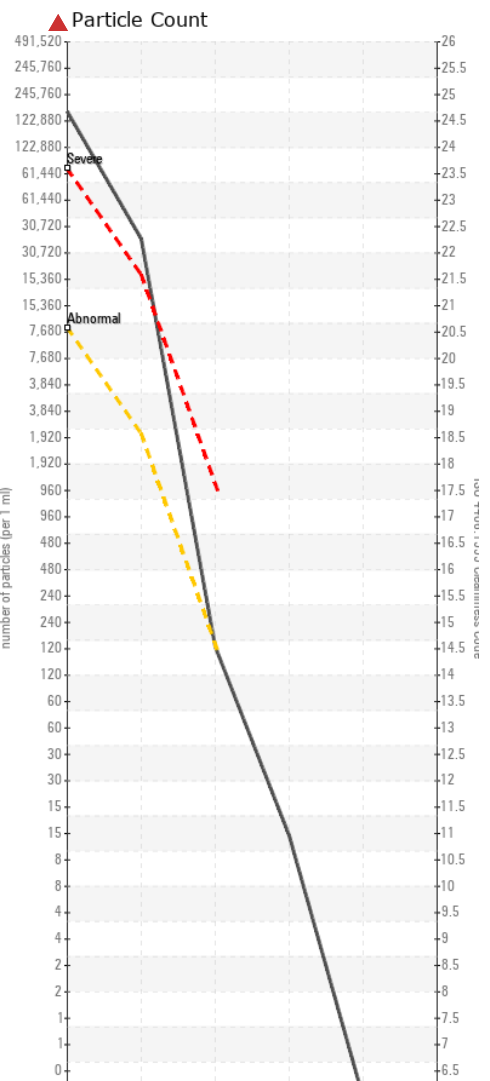
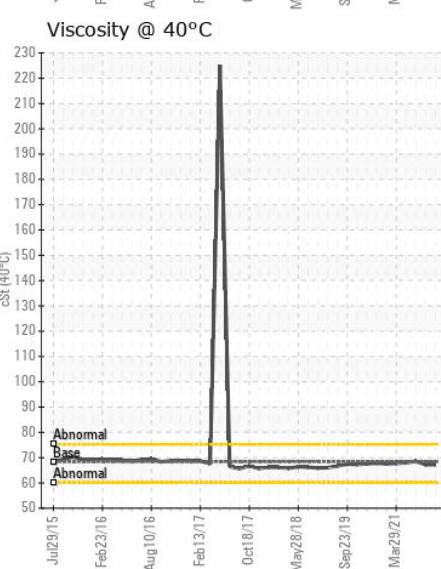
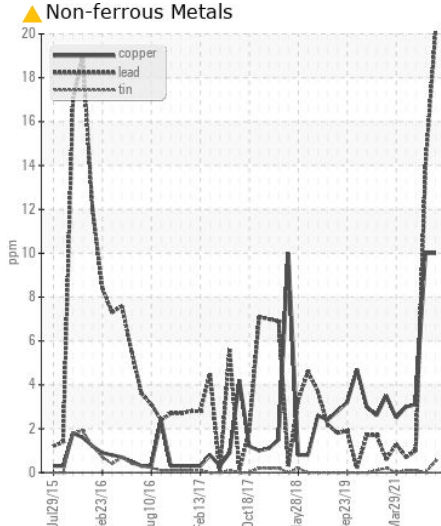
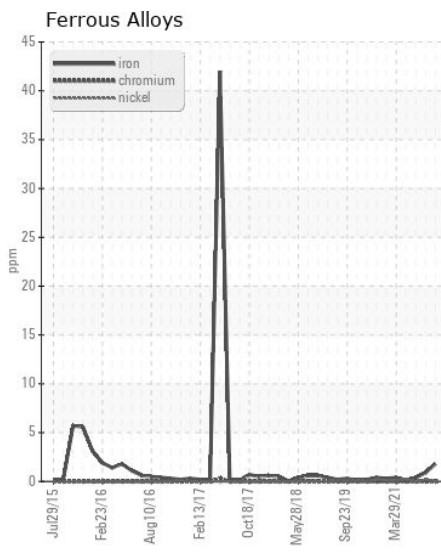
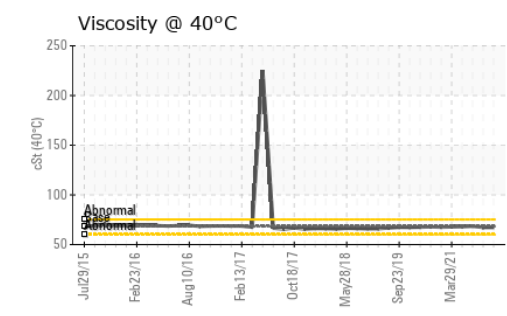
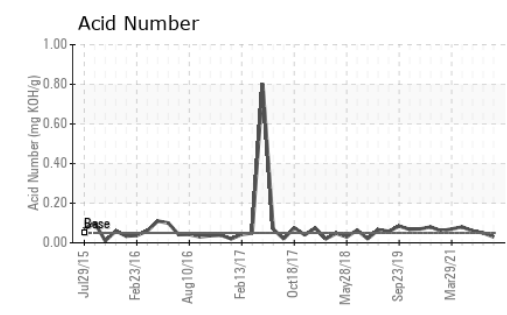
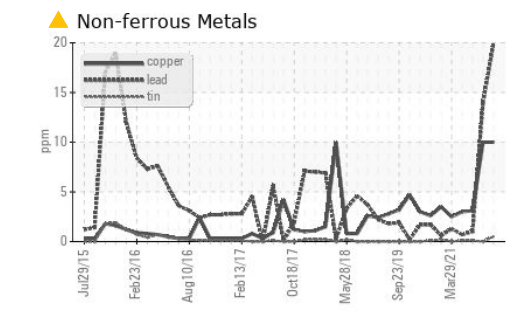
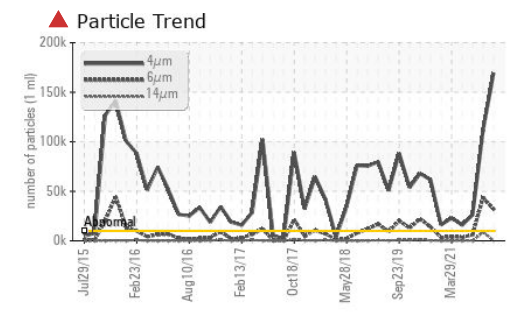
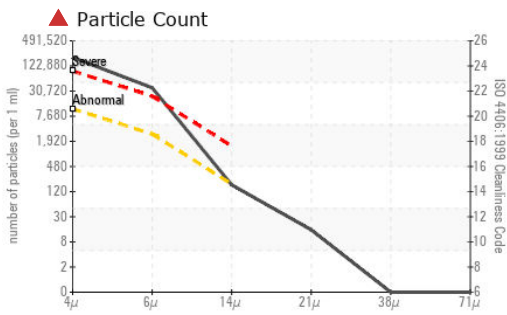
CONTAMINATION

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0873644	WC0902152	WC0783251
Sample Date		Client Info		29 Apr 2024	25 Feb 2024	17 Feb 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	ABNORMAL
Iron	ppm	ASTM D5185(m)	>20	2	<1	<1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	0	<1	0
Lead	ppm	ASTM D5185(m)	>20	▲ 20	● 14	1
Copper	ppm	ASTM D5185(m)	>20	10	10	3
Tin	ppm	ASTM D5185(m)	>20	<1	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>15	14	▲ 25	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water		WC Method	>2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>10000	▲ 169271	▲ 111465	▲ 26174
Particles >6µm		ASTM D7647	>2500	▲ 31991	▲ 43480	▲ 5988
Particles >14µm		ASTM D7647	>160	154	▲ 8721	87
Particles >21µm		ASTM D7647	>40	13	▲ 2499	9
Particles >38µm		ASTM D7647	>10	0	▲ 127	1
Particles >71µm		ASTM D7647	>3	0	5	0
Oil Cleanliness		ISO 4406 (c)	>20/18/14	▲ 25/22/14	▲ 24/23/20	▲ 22/20/14
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		<1	0	<1
Boron	ppm	ASTM D5185(m)	0	0	0	<1
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	0	<1	<1	0
Calcium	ppm	ASTM D5185(m)	0	<1	<1	0
Phosphorus	ppm	ASTM D5185(m)	120	0	0	0
Zinc	ppm	ASTM D5185(m)	0.0	14	● 29	13
Sulfur	ppm	ASTM D5185(m)	50	611	723	605
Acid Number (AN)	mg KOH/g	ASTM D974*	0.05	0.03	0.05	0.06
Visc @ 40°C	cSt	ASTM D7279(m)	68.4	67.2	67.2	68.5



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0873644
Lab Number : 02632762
Unique Number : 5773915
Test Package : IND 2 (Additional Tests: TAN Man)

Received : 02 May 2024
Tested : 03 May 2024
Diagnosed : 03 May 2024 - Kevin Marson

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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