



PROBLEM SUMMARY

Sample Rating Trend

ISO

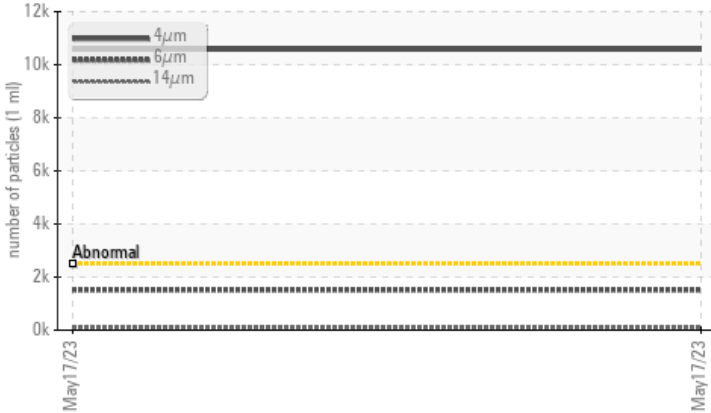


Area
CAMPBELLFORD PLANT
 Machine Id
G3 DOWNSTREAM

Component
Turbine
 Fluid
PETRO CANADA PURITY FG EP GEAR OIL 100 (40 LTR)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	---	---
Particles >4µm	ASTM D7647	>2500	▲ 10574	---	---
Particles >6µm	ASTM D7647	>640	▲ 1514	---	---
Particles >14µm	ASTM D7647	>80	▲ 91	---	---
Particles >21µm	ASTM D7647	>20	▲ 33	---	---
Oil Cleanliness	ISO 4406 (c)	>18/16/13	▲ 21/18/14	---	---

Customer Id: PET412PET
 Sample No.: WC0774041
 Lab Number: 02560151
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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To change component or sample information:
 Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	We recommend an early resample to monitor this condition.

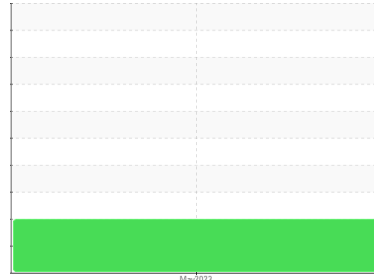
HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area
CAMPBELLFORD PLANT
 Machine Id
G3 DOWNSTREAM

Component
Turbine
 Fluid
PETRO CANADA PURITY FG EP GEAR OIL 100 (40 LTR)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

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.

SAMPLE INFORMATION

method	limit/base	current	history 1	history 2
Sample Number	Client Info	WC0774041	---	---
Sample Date	Client Info	17 May 2023	---	---
Machine Age	hrs Client Info	60	---	---
Oil Age	hrs Client Info	2	---	---
Oil Changed	Client Info	Not Chngd	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history 1	history 2
Iron ppm ASTM D5185(m)	>15	3	---	---
Chromium ppm ASTM D5185(m)	>4	0	---	---
Nickel ppm ASTM D5185(m)	>2	0	---	---
Titanium ppm ASTM D5185(m)		0	---	---
Silver ppm ASTM D5185(m)		0	---	---
Aluminum ppm ASTM D5185(m)	>10	<1	---	---
Lead ppm ASTM D5185(m)		12	---	---
Copper ppm ASTM D5185(m)	>5	<1	---	---
Tin ppm ASTM D5185(m)	>5	<1	---	---
Antimony ppm ASTM D5185(m)		0	---	---
Vanadium ppm ASTM D5185(m)		0	---	---
Beryllium ppm ASTM D5185(m)		0	---	---
Cadmium ppm ASTM D5185(m)		0	---	---

ADDITIVES

method	limit/base	current	history 1	history 2
Boron ppm ASTM D5185(m)		0	---	---
Barium ppm ASTM D5185(m)		0	---	---
Molybdenum ppm ASTM D5185(m)		0	---	---
Manganese ppm ASTM D5185(m)		0	---	---
Magnesium ppm ASTM D5185(m)		0	---	---
Calcium ppm ASTM D5185(m)		0	---	---
Phosphorus ppm ASTM D5185(m)	135	143	---	---
Zinc ppm ASTM D5185(m)		115	---	---
Sulfur ppm ASTM D5185(m)	660	649	---	---
Lithium ppm ASTM D5185(m)		<1	---	---

CONTAMINANTS

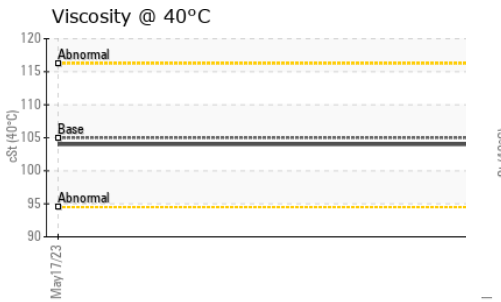
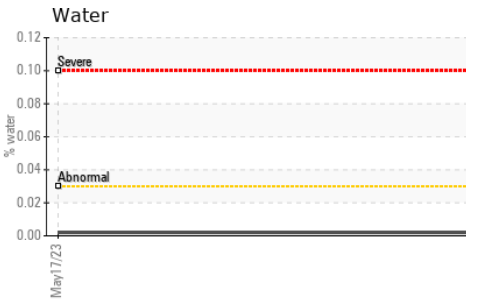
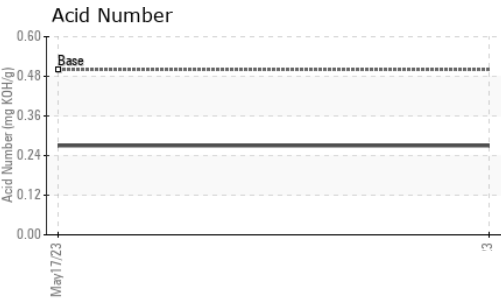
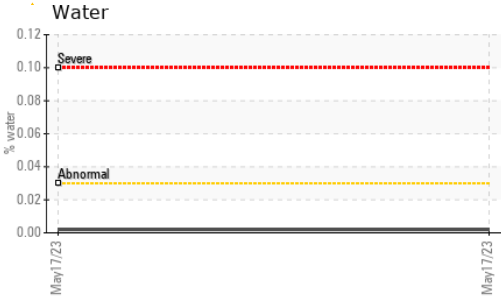
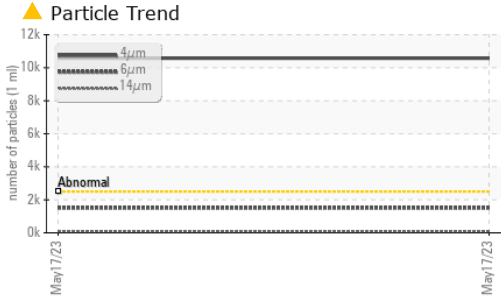
method	limit/base	current	history 1	history 2
Silicon ppm ASTM D5185(m)	>15	<1	---	---
Sodium ppm ASTM D5185(m)		<1	---	---
Potassium ppm ASTM D5185(m)	>20	0	---	---
Water % ASTM D6304*	>0.03	0.002	---	---
ppm Water ppm ASTM D6304*	>300	20.4	---	---

FLUID CLEANLINESS

method	limit/base	current	history 1	history 2
Particles >4µm ASTM D7647	>2500	▲ 10574	---	---
Particles >6µm ASTM D7647	>640	▲ 1514	---	---
Particles >14µm ASTM D7647	>80	▲ 91	---	---
Particles >21µm ASTM D7647	>20	▲ 33	---	---
Particles >38µm ASTM D7647	>4	2	---	---
Particles >71µm ASTM D7647	>3	0	---	---
Oil Cleanliness ISO 4406 (c)	>18/16/13	▲ 21/18/14	---	---



OIL ANALYSIS REPORT



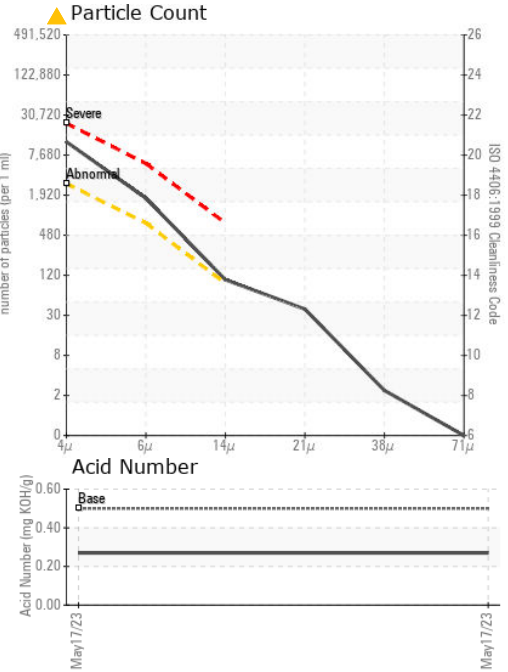
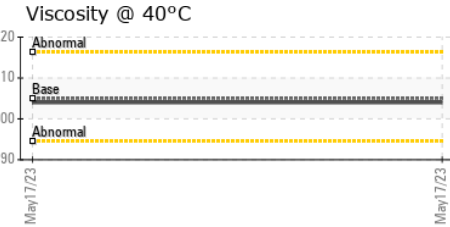
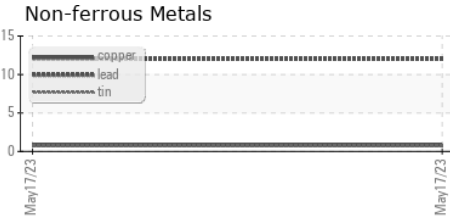
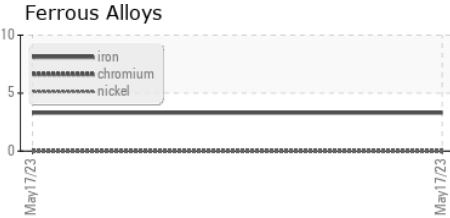
FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.50	0.27	---	---

VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.03	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D7279(m)	105.0	104	---	---

SAMPLE IMAGES		method	limit/base	current	history 1	history 2
Color					no image	no image
Bottom					no image	no image

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0774041
Lab Number : 02560151
Unique Number : 5581191
Test Package : IND 2

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Received : 29 May 2023
 Diagnosed : 30 May 2023
 Diagnostician : 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.