



PROBLEM SUMMARY

Area

POST

Machine Id

FINISH BIN T1 NORTH

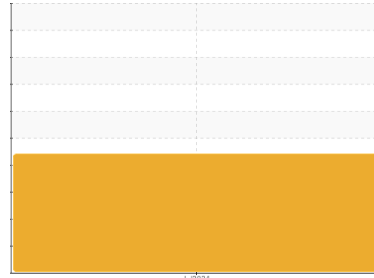
Component

Gearbox

Fluid

PETRO CANADA PURITY FG SYNTH EP GEAR FLUID 460 (4 GAL)

Sample Rating Trend

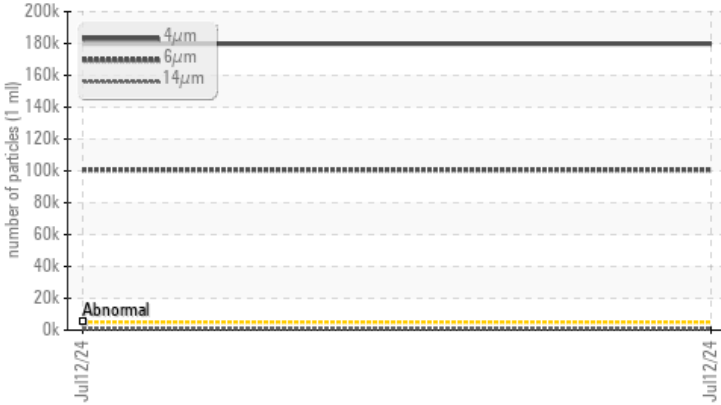


ISO



COMPONENT CONDITION SUMMARY

▲ Particle Trend



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.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	---	---
Particles >4µm	ASTM D7647	>5000	▲ 179800	---	---
Particles >6µm	ASTM D7647	>1300	▲ 100671	---	---
Particles >14µm	ASTM D7647	>160	▲ 948	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 25/24/17	---	---

Customer Id: BLURICIN

Sample No.: WC0965379

Lab Number: 06239132

Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:

Wes Davis +1 905-569-8600 x223

wesd@wearcheck.ca

To change component or sample information:

Customer Service +1 1-800-237-1369

customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	Resample in 30-45 days to monitor this situation.
Check Breathers	---	---	?	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.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

POST

Machine Id

FINISH BIN T1 NORTH

Component

Gearbox

Fluid

PETRO CANADA PURITY FG SYNTH EP GEAR FLUID 460 (4 GAL)

DIAGNOSIS

▲ 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

All component wear rates are normal.

▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code.

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	history1	history2
Sample Number	Client Info	WC0965379	---	---
Sample Date	Client Info	12 Jul 2024	---	---
Machine Age	hrs	Client Info	0	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	N/A	---	---
Sample Status		SEVERE	---	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	30	---	---
Iron	ppm	ASTM D5185m >200	13	---
Chromium	ppm	ASTM D5185m >15	0	---
Nickel	ppm	ASTM D5185m >15	0	---
Titanium	ppm	ASTM D5185m	0	---
Silver	ppm	ASTM D5185m	0	---
Aluminum	ppm	ASTM D5185m >25	13	---
Lead	ppm	ASTM D5185m >100	0	---
Copper	ppm	ASTM D5185m >200	4	---
Tin	ppm	ASTM D5185m >25	<1	---
Vanadium	ppm	ASTM D5185m	0	---
Cadmium	ppm	ASTM D5185m	0	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	---
Barium	ppm	ASTM D5185m	0	---
Molybdenum	ppm	ASTM D5185m	0	---
Manganese	ppm	ASTM D5185m	0	---
Magnesium	ppm	ASTM D5185m 0	2	---
Calcium	ppm	ASTM D5185m 0	524	---
Phosphorus	ppm	ASTM D5185m 600	750	---
Zinc	ppm	ASTM D5185m 0	0	---
Sulfur	ppm	ASTM D5185m 500	910	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	26	---
Sodium	ppm	ASTM D5185m	7	---
Potassium	ppm	ASTM D5185m >20	0	---
Water	%	ASTM D6304 >0.2	0.014	---
ppm Water	ppm	ASTM D6304 >2000	141	---

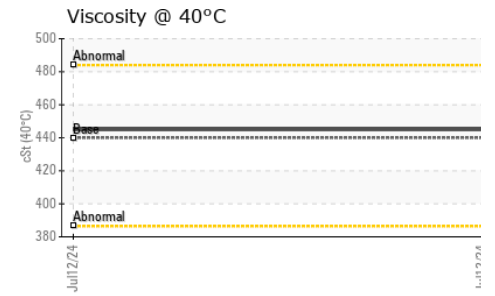
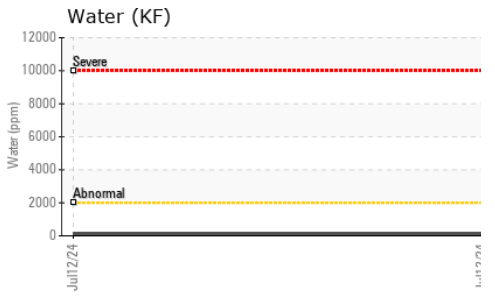
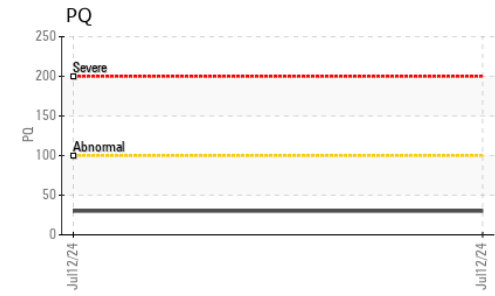
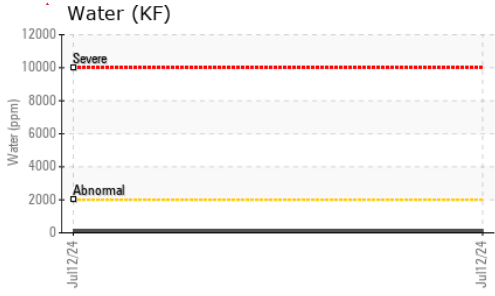
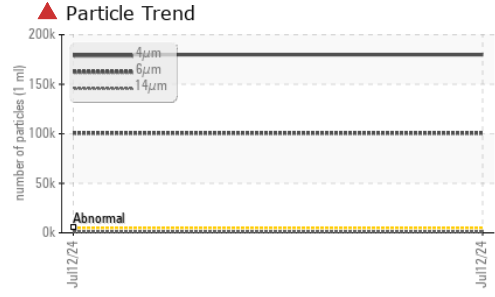
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 179800	---	---
Particles >6µm	ASTM D7647 >1300	▲ 100671	---	---
Particles >14µm	ASTM D7647 >160	▲ 948	---	---
Particles >21µm	ASTM D7647 >40	● 76	---	---
Particles >38µm	ASTM D7647 >10	2	---	---
Particles >71µm	ASTM D7647 >3	2	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 25/24/17	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.40	---

OIL ANALYSIS REPORT



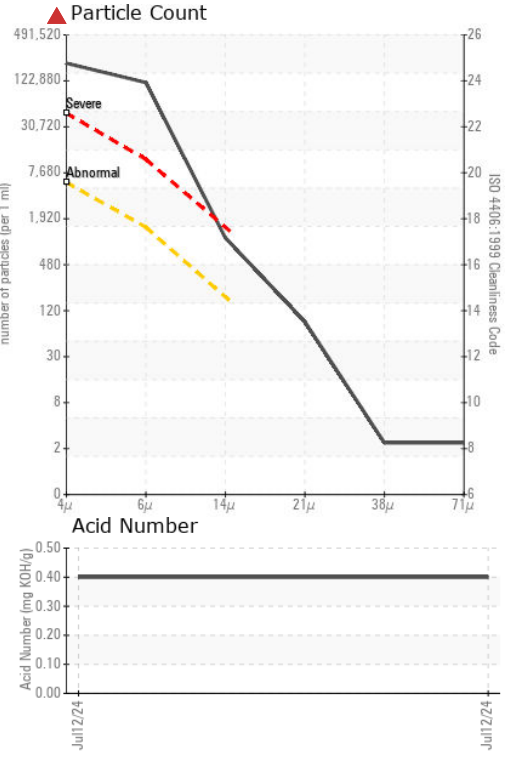
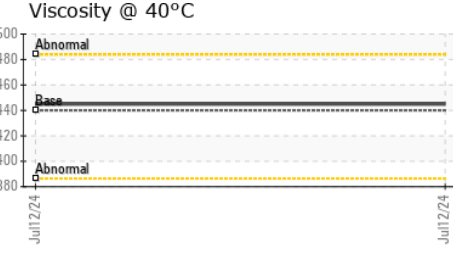
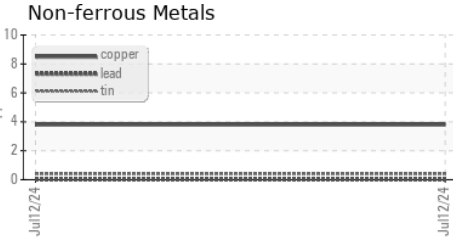
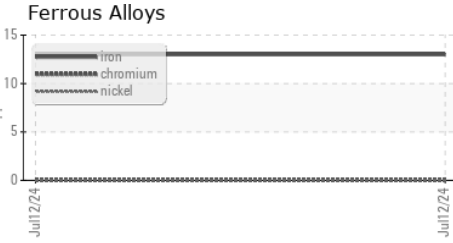
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	440	445	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color		no image	no image
Bottom		no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0965379 **Received** : 17 Jul 2024
Lab Number : 06239132 **Tested** : 18 Jul 2024
Unique Number : 11127966 **Diagnosed** : 18 Jul 2024 - Wes Davis
Test Package : PLANT

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To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)