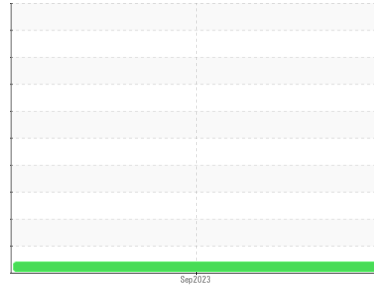# PROBLEM SUMMARY

Sample Rating Trend

Machine Id
1300 EXT 002
Component
Gearbox
Fluid
PETRO CANADA TURBOFLO R&O 150 (4 GAL)

Sep2023

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	---	---
Debris	scalar	*Visual	NONE	⚠ **MODER**	---	---
PrtFilter					*no image*	*no image*

RECOMMENDED ACTIONS

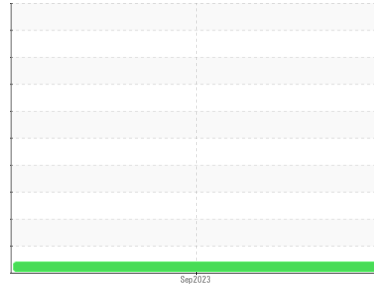| Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Parker

Machine Id
1300 EXT 002
Component
Gearbox
Fluid
PETRO CANADA TURBOFLO R&O 150 (4 GAL)

Sep2023

DIAGNOSIS

⚠ Recommendation
We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.
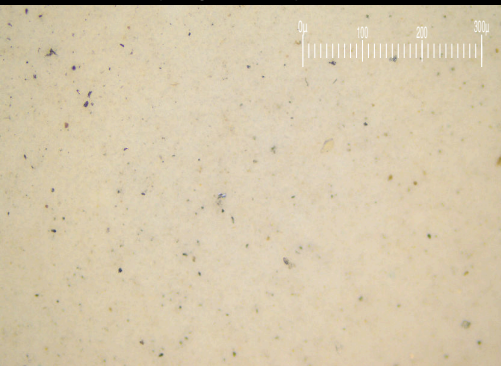
Wear
All component wear rates are normal.

⚠ Contamination
Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		PH0001946	---	---
Sample Date		Client Info		24 Sep 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	4	---	---
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	0	---	---
Lead	ppm	ASTM D5185m	>100	0	---	---
Copper	ppm	ASTM D5185m	>200	1	---	---
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	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		1	---	---
Calcium	ppm	ASTM D5185m	0	5	---	---
Phosphorus	ppm	ASTM D5185m	4	43	---	---
Zinc	ppm	ASTM D5185m	0	3	---	---
Sulfur	ppm	ASTM D5185m		3259	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	---	---
Sodium	ppm	ASTM D5185m		3	---	---
Potassium	ppm	ASTM D5185m	>20	1	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.18	0.24	---	---

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	⚠ MODER	---	---
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	---	---

Particle Filter (Magn: 200 x)

OIL ANALYSIS REPORT

Acid Number

Viscosity @ 40°C
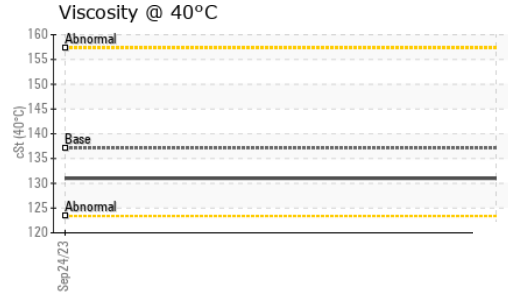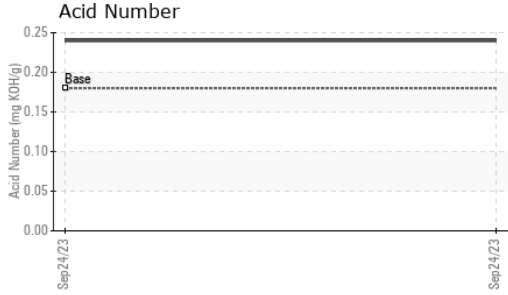
FLUID PROPERTIES

FLUID PROPERTIES	method		limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	137.1	**131**	---	---

SAMPLE IMAGES

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

GRAPHS
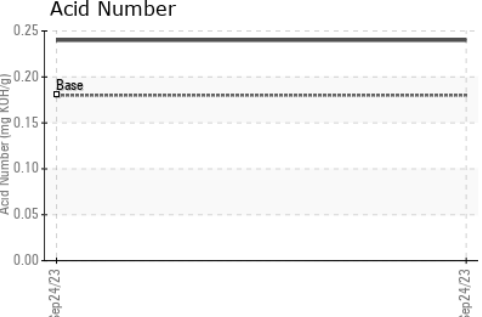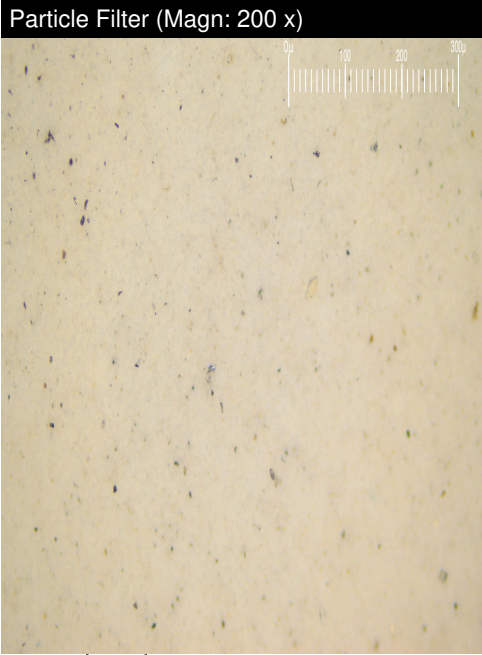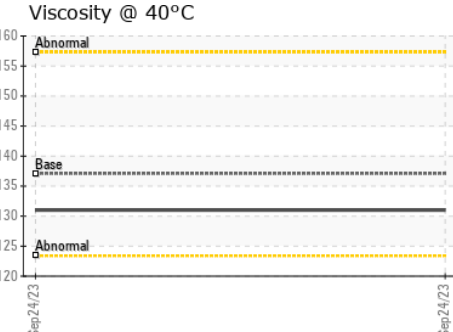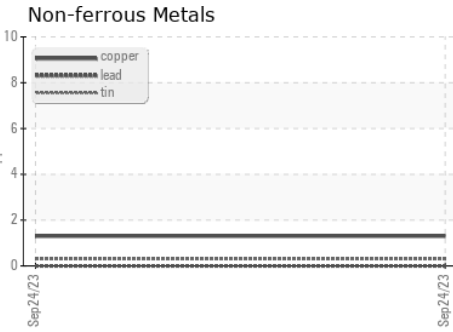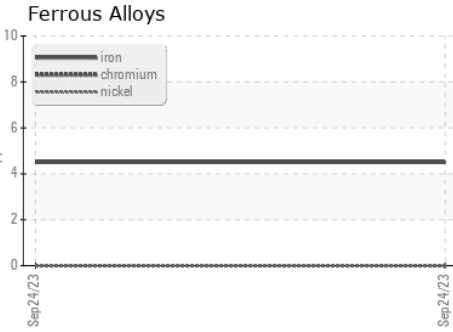
Ferrous Alloys

- iron
- chromium
- nickel

Non-ferrous Metals

- copper
- lead
- tin

Viscosity @ 40°C

Particle Filter (Magn: 200 x)

Acid Number

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)

T:
F:

ANAB ACCREDITED TESTING LABORATORY
Certificate L2367