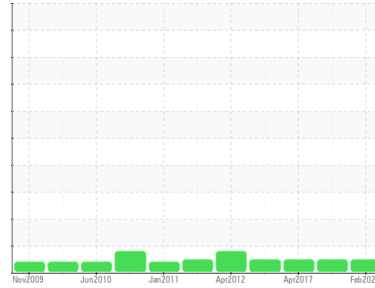


# OIL ANALYSIS REPORT



Area  
**Inactive Off Road**  
Machine Id  
**E59**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA DURATRAN (--- GAL)**

Sample Rating Trend



**NORMAL**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

### Fluid Condition

Confirm oil type. 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		<b>PCA0109848</b>	PCA0098486	PCA15376019
Sample Date	Client Info		<b>14 Feb 2024</b>	15 Aug 2023	13 Apr 2017
Machine Age	hrs	Client Info	<b>15148</b>	15148	14034
Oil Age	hrs	Client Info	<b>15148</b>	15148	---
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>6</b>	5	7
Chromium	ppm	ASTM D5185m >10	<b>0</b>	<1	2
Nickel	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	1
Lead	ppm	ASTM D5185m >10	<b>1</b>	<1	0
Copper	ppm	ASTM D5185m >75	<b>6</b>	5	3
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 110	<b>0</b>	0	55
Barium	ppm	ASTM D5185m 0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 0.0	<b>0</b>	<1	1
Manganese	ppm	ASTM D5185m 1	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m 13	<b>5</b>	5	49
Calcium	ppm	ASTM D5185m 3610	<b>150</b>	167	1957
Phosphorus	ppm	ASTM D5185m 1192	<b>678</b>	671	947
Zinc	ppm	ASTM D5185m 1455	<b>897</b>	898	857
Sulfur	ppm	ASTM D5185m 2641	<b>1653</b>	1969	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	7
Sodium	ppm	ASTM D5185m	<b>2</b>	2	5
Potassium	ppm	ASTM D5185m >20	<b>3</b>	2	0

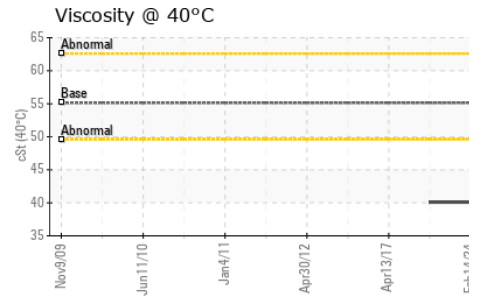
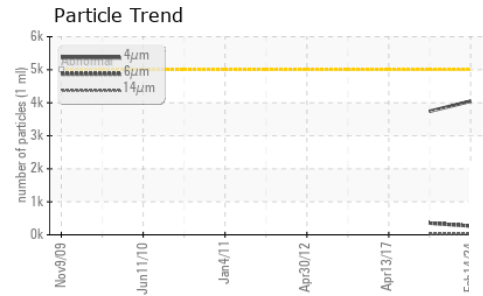
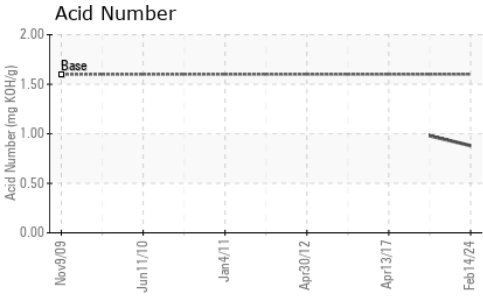
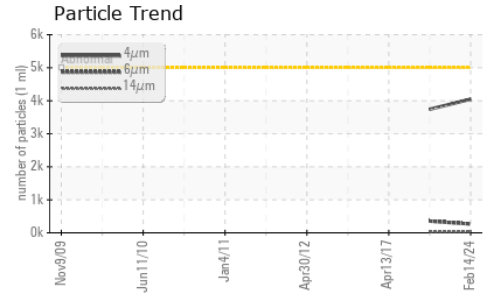
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>4048</b>	3742	---
Particles >6µm	ASTM D7647	>1300	<b>268</b>	354	---
Particles >14µm	ASTM D7647	>160	<b>23</b>	20	---
Particles >21µm	ASTM D7647	>40	<b>8</b>	5	---
Particles >38µm	ASTM D7647	>10	<b>0</b>	1	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>19/15/12</b>	19/16/11	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.6	<b>0.88</b>	0.98	---

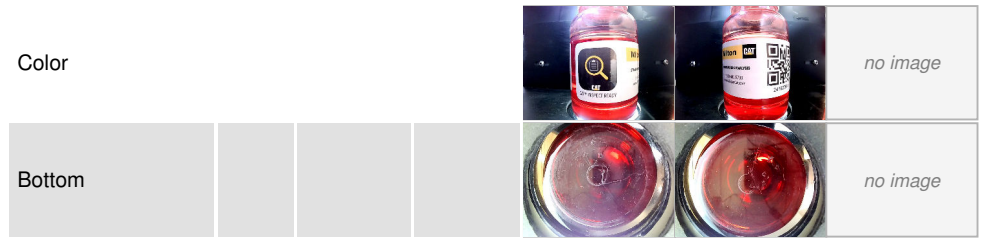
# OIL ANALYSIS REPORT



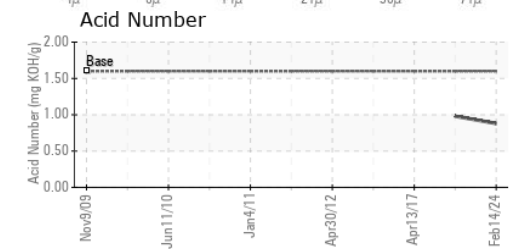
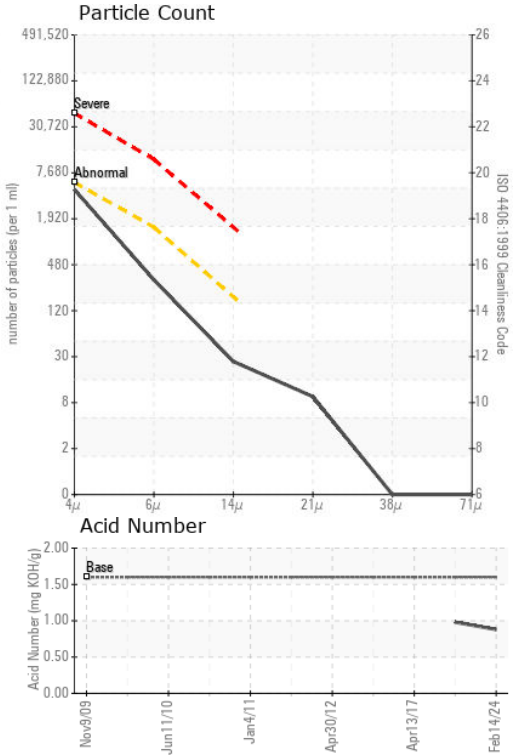
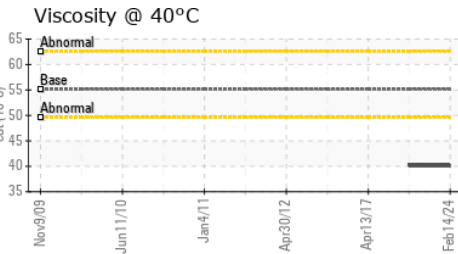
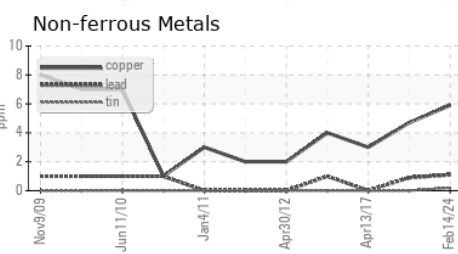
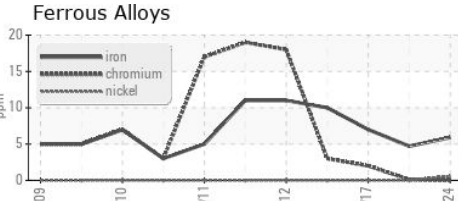
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	55.14	<b>40.1</b>	40.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0109848  
**Lab Number** : 06092995  
**Unique Number** : 10885848  
**Test Package** : MOB 2

**Received** : 19 Feb 2024  
**Tested** : 20 Feb 2024  
**Diagnosed** : 21 Feb 2024 - Don Baldrige

**G LOPES CONSTRUCTION**  
 565 WINTHROP ST  
 TAUNTON, MA  
 US 02780  
 Contact: BUTCH MCGRATH  
 bmcgrath@glopes.com

T:  
F:

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)