

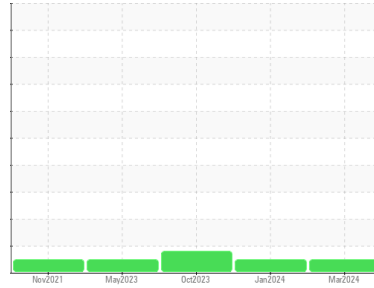
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**G.LOPES CONSTRUCTION INC./OFF-ROAD**  
Machine Id  
**E-34**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA DURATRAN (--- GAL)**



## 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

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>PCA0109690</b>	PCA0109742	PCA0104585
Sample Date	Client Info		<b>19 Mar 2024</b>	16 Jan 2024	11 Oct 2023
Machine Age	hrs	Client Info	<b>8781</b>	8781	8403
Oil Age	hrs	Client Info	<b>8781</b>	8781	8403
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

## 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>10</b>	2	7
Chromium	ppm	ASTM D5185m >10	<b>2</b>	1	<1
Nickel	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>1</b>	<1	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>1</b>	<1	<1
Lead	ppm	ASTM D5185m >10	<b>3</b>	0	0
Copper	ppm	ASTM D5185m >75	<b>3</b>	3	2
Tin	ppm	ASTM D5185m >10	<b>3</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 110	<b>47</b>	41	47
Barium	ppm	ASTM D5185m 0.0	<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185m 0.0	<b>6</b>	4	5
Manganese	ppm	ASTM D5185m 1	<b>1</b>	<1	0
Magnesium	ppm	ASTM D5185m 13	<b>55</b>	57	55
Calcium	ppm	ASTM D5185m 3610	<b>2375</b>	2218	2048
Phosphorus	ppm	ASTM D5185m 1192	<b>791</b>	838	792
Zinc	ppm	ASTM D5185m 1455	<b>954</b>	996	972
Sulfur	ppm	ASTM D5185m 2641	<b>2795</b>	2492	2460

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>7</b>	7	8
Sodium	ppm	ASTM D5185m	<b>3</b>	0	2
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	0

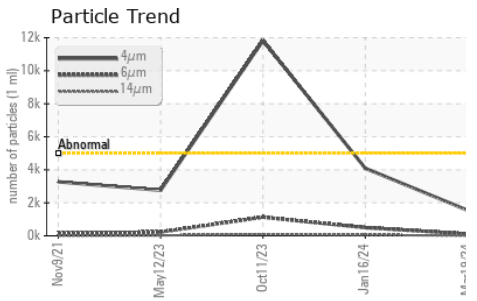
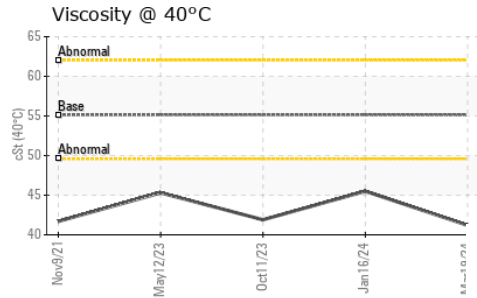
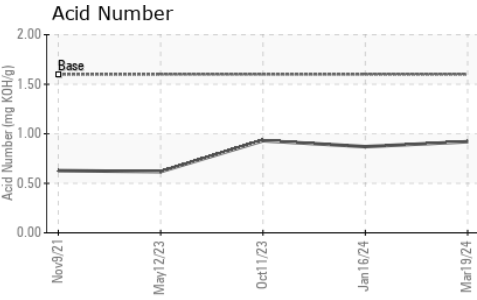
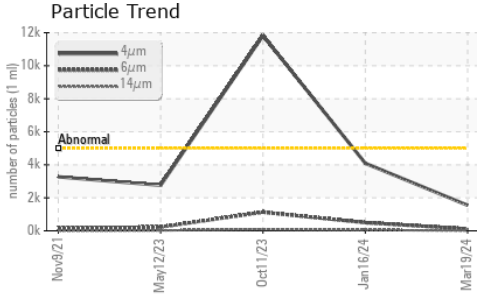
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>1548</b>	4091	▲ 11826
Particles >6µm	ASTM D7647	>1300	<b>116</b>	497	1130
Particles >14µm	ASTM D7647	>160	<b>9</b>	51	89
Particles >21µm	ASTM D7647	>40	<b>3</b>	19	27
Particles >38µm	ASTM D7647	>10	<b>0</b>	2	2
Particles >71µm	ASTM D7647	>3	<b>0</b>	1	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>18/14/10</b>	19/16/13	▲ 21/17/14

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.6	<b>0.92</b>	0.87	0.93

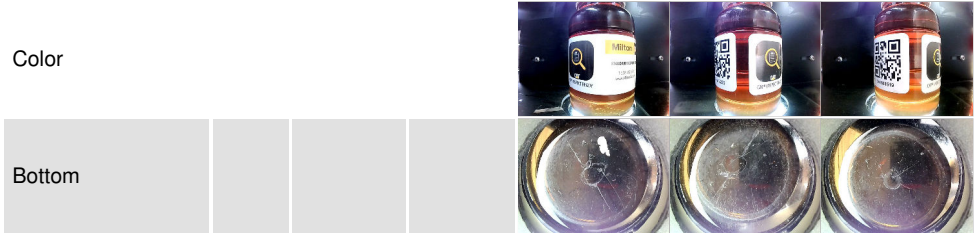
# OIL ANALYSIS REPORT



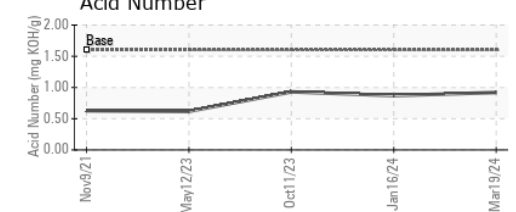
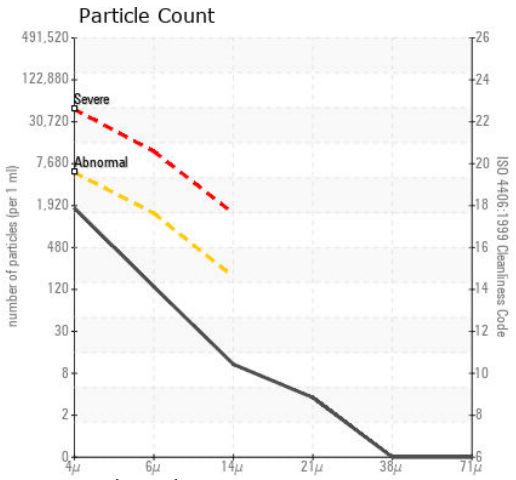
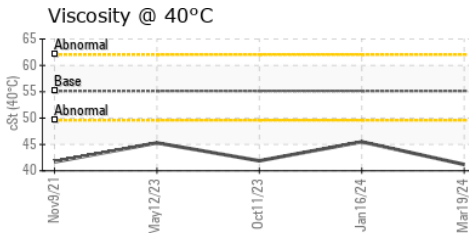
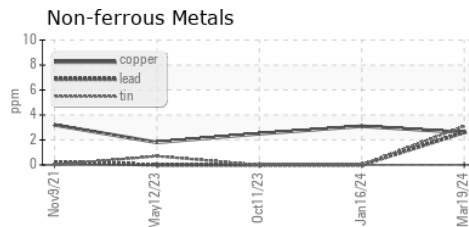
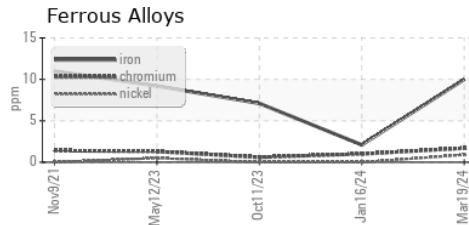
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

PARAMETER	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	55.14	41.2	45.5

PARAMETER	method	limit/base	current	history1	history2
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## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0109690  
**Lab Number** : 06126386  
**Unique Number** : 10940537  
**Test Package** : MOB 2  
**Received** : 22 Mar 2024  
**Tested** : 25 Mar 2024  
**Diagnosed** : 26 Mar 2024 - Angela Borella

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

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)

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F: