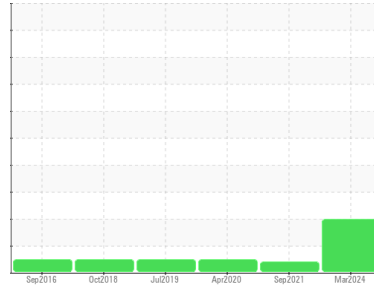


# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Area  
**G.LOPES CONSTRUCTION INC./Off-Road**  
Machine Id  
**L636**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA DURATRAN (--- GAL)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of particulates 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		<b>PCA0109952</b>	WC0594431	PCA12324001
Sample Date	Client Info		<b>22 Mar 2024</b>	28 Sep 2021	15 Apr 2020
Machine Age	mls	Client Info	<b>11576</b>	10148	9240
Oil Age	mls	Client Info	<b>11576</b>	10148	---
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ATTENTION	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>10</b>	7	12
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	<b>0</b>	<1	2
Aluminum	ppm	ASTM D5185m >10	<b>3</b>	2	2
Lead	ppm	ASTM D5185m >10	<b>3</b>	2	2
Copper	ppm	ASTM D5185m >75	<b>12</b>	8	13
Tin	ppm	ASTM D5185m >10	<b>11</b>	<1	0
Antimony	ppm	ASTM D5185m	<b>---</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 110	<b>111</b>	93	58
Barium	ppm	ASTM D5185m 0.0	<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m 0.0	<b>6</b>	5	2
Manganese	ppm	ASTM D5185m 1	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m 13	<b>79</b>	81	119
Calcium	ppm	ASTM D5185m 3610	<b>3262</b>	2882	2092
Phosphorus	ppm	ASTM D5185m 1192	<b>1035</b>	1014	1056
Zinc	ppm	ASTM D5185m 1455	<b>1323</b>	1270	1043
Sulfur	ppm	ASTM D5185m 2641	<b>6613</b>	6432	---

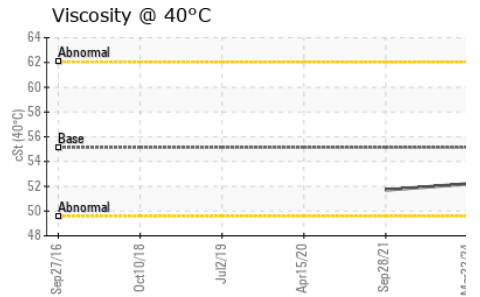
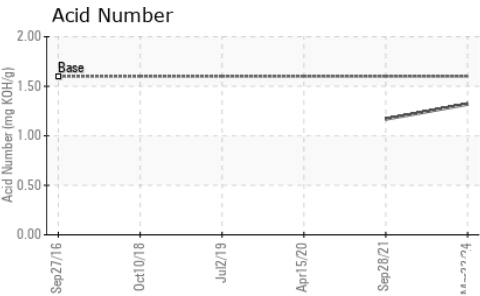
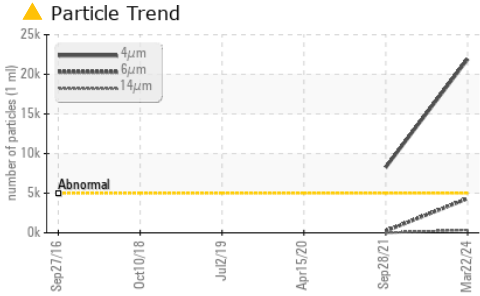
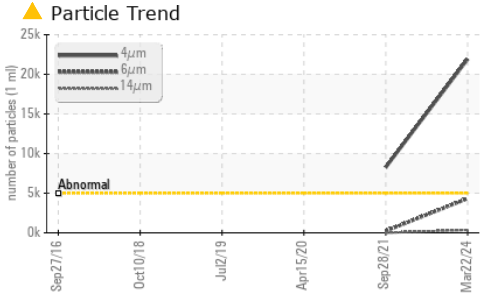
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>11</b>	8	6
Sodium	ppm	ASTM D5185m	<b>3</b>	7	5
Potassium	ppm	ASTM D5185m >20	<b>3</b>	<1	2

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>▲ 21909</b>	● 8261	---
Particles >6µm	ASTM D7647	>1300	<b>▲ 4332</b>	235	---
Particles >14µm	ASTM D7647	>160	<b>▲ 361</b>	5	---
Particles >21µm	ASTM D7647	>40	<b>▲ 83</b>	1	---
Particles >38µm	ASTM D7647	>10	<b>3</b>	0	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>▲ 22/19/16</b>	● 20/15/10	---

# OIL ANALYSIS REPORT

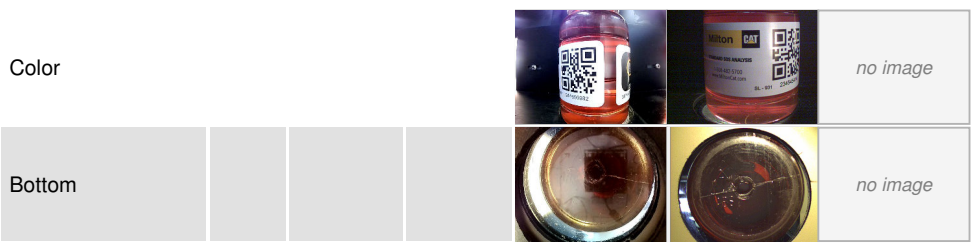


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.6	<b>1.32</b>	1.169	---

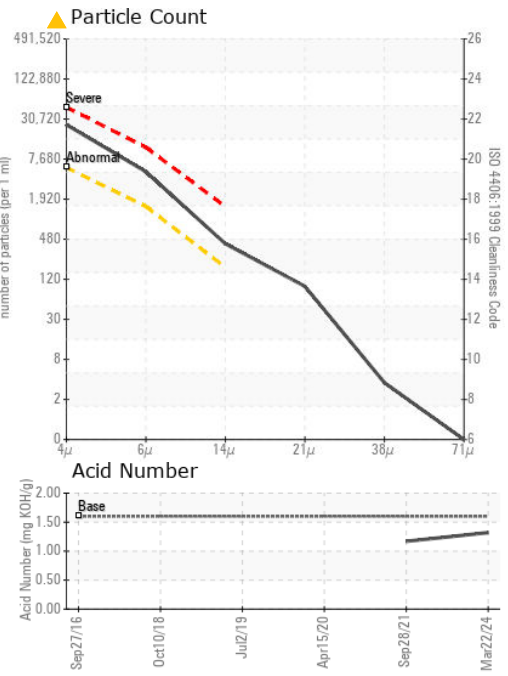
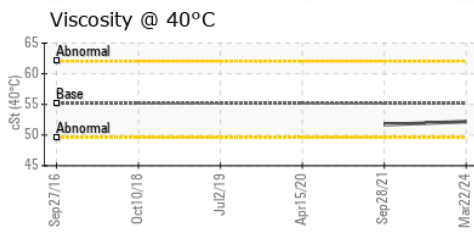
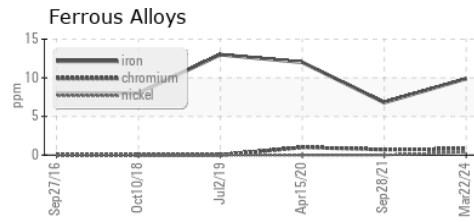
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
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>52.2</b>	51.7	---

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0109952  
**Lab Number** : **06129369**  
**Unique Number** : 10943520  
**Test Package** : MOB 2

**Received** : 26 Mar 2024  
**Tested** : 27 Mar 2024  
**Diagnosed** : 29 Mar 2024 - Don Baldrige

**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)