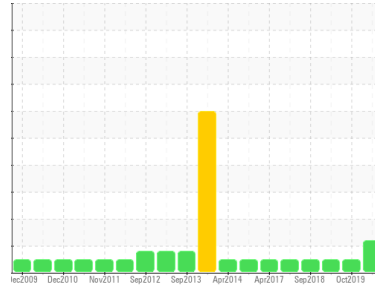


# OIL ANALYSIS REPORT



Area  
**G.LOPES CONSTRUCTION INC./Off-Road**  
Machine Id  
**E27**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA DURATRAN (--- GAL)**

Sample Rating Trend



ISO



## DIAGNOSIS

### ▲ Recommendation

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

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) 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>PCA0109778</b>	PCA88350019	PCA29300003
Sample Date	Client Info		<b>07 Nov 2023</b>	09 Oct 2019	01 May 2019
Machine Age	hrs	Client Info	<b>12297</b>	11036	10711
Oil Age	hrs	Client Info	<b>8931</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>8</b>	13	14
Chromium	ppm	ASTM D5185m >10	<b>7</b>	3	4
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >10	<b>3</b>	2	2
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	2	3
Copper	ppm	ASTM D5185m >75	<b>6</b>	5	5
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 110	<b>102</b>	77	94
Barium	ppm	ASTM D5185m 0.0	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m 0.0	<b>4</b>	3	4
Manganese	ppm	ASTM D5185m 1	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185m 13	<b>61</b>	68	80
Calcium	ppm	ASTM D5185m 3610	<b>2753</b>	2692	3258
Phosphorus	ppm	ASTM D5185m 1192	<b>978</b>	1018	1253
Zinc	ppm	ASTM D5185m 1455	<b>1272</b>	1055	1382
Sulfur	ppm	ASTM D5185m 2641	<b>4783</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>9</b>	8	9
Sodium	ppm	ASTM D5185m	<b>2</b>	6	8
Potassium	ppm	ASTM D5185m >20	<b>3</b>	1	0

## FLUID CLEANLINESS

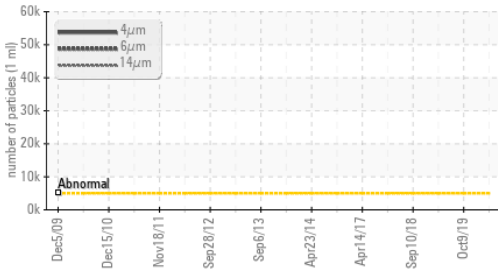
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>▲ 54715</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>▲ 4551</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>136</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>24</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>0</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>▲ 23/19/14</b>	---	---

## FLUID DEGRADATION

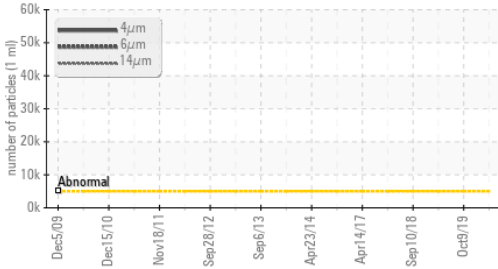
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.6	<b>1.39</b>	---	---

# OIL ANALYSIS REPORT

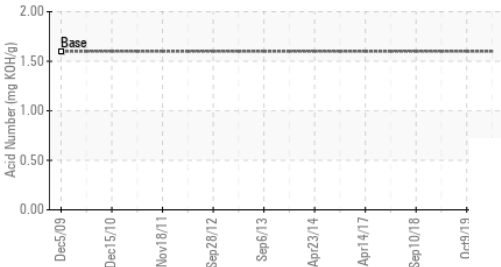
## ▲ Particle Trend



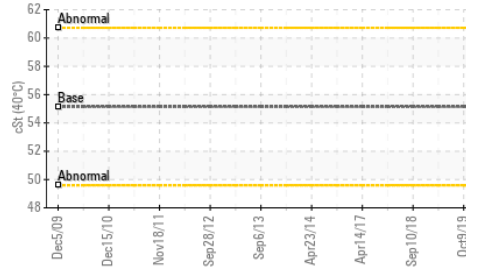
## ▲ Particle Trend



## Acid Number



## Viscosity @ 40°C



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

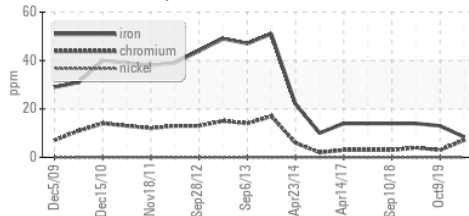
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	55.14	<b>49.2</b>	---

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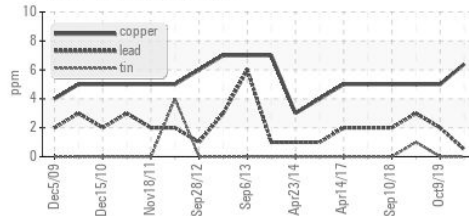
Color				no image	no image
Bottom				no image	no image

## GRAPHS

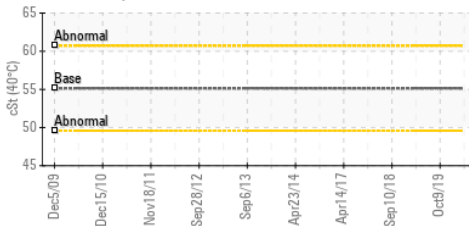
### Ferrous Alloys



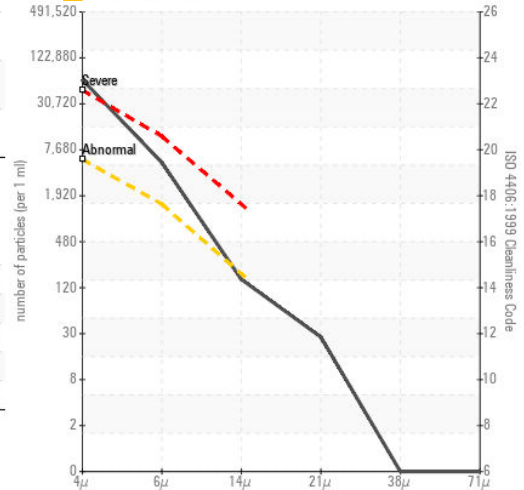
### Non-ferrous Metals



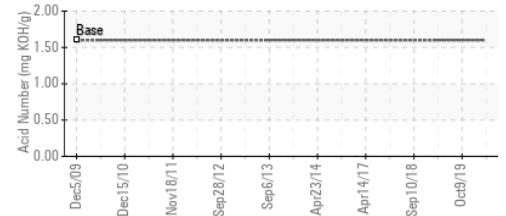
### Viscosity @ 40°C



### ▲ Particle Count



### Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0109778  
**Lab Number** : 06002852  
**Unique Number** : 10736614  
**Test Package** : MOB 2

**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)

T:  
F: