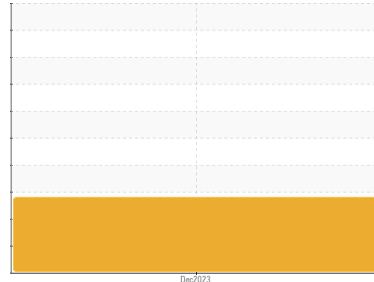


# OIL ANALYSIS REPORT

Sample Rating Trend



Area  
**G.LOPES CONSTRUCTION INC./Off-Road**  
 Machine Id  
**E568**  
 Component  
**Left Final Drive**  
 Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**

## DIAGNOSIS

- Recommendation**  
We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.
- Wear**  
All component wear rates are normal.
- Contamination**  
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.
- Fluid Condition**  
The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0109548</b>	---	---
Sample Date	Client Info		<b>05 Dec 2023</b>	---	---
Machine Age	hrs	Client Info	<b>11854</b>	---	---
Oil Age	hrs	Client Info	<b>11854</b>	---	---
Oil Changed		Client Info	<b>N/A</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	<b>722</b>	---	---
Chromium	ppm	ASTM D5185m >10	<b>3</b>	---	---
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m >15	<b>4</b>	---	---
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m >75	<b>▲ 80</b>	---	---
Lead	ppm	ASTM D5185m >10	<b>0</b>	---	---
Copper	ppm	ASTM D5185m >75	<b>6</b>	---	---
Tin	ppm	ASTM D5185m >8	<b>0</b>	---	---
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 2	<b>22</b>	---	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m 0	<b>15</b>	---	---
Manganese	ppm	ASTM D5185m 0	<b>7</b>	---	---
Magnesium	ppm	ASTM D5185m 9	<b>102</b>	---	---
Calcium	ppm	ASTM D5185m 3114	<b>2582</b>	---	---
Phosphorus	ppm	ASTM D5185m 1099	<b>1052</b>	---	---
Zinc	ppm	ASTM D5185m 1245	<b>1169</b>	---	---
Sulfur	ppm	ASTM D5185m 7086	<b>6688</b>	---	---

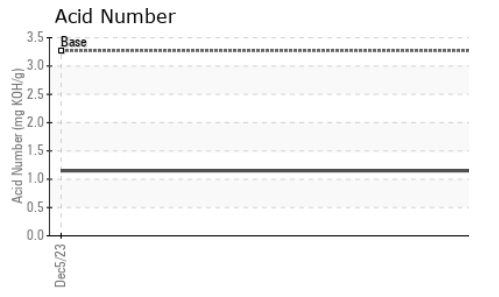
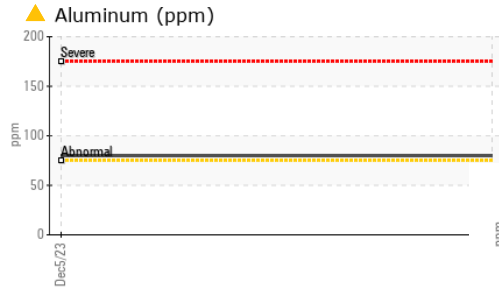
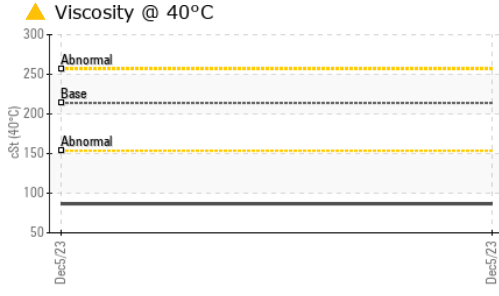
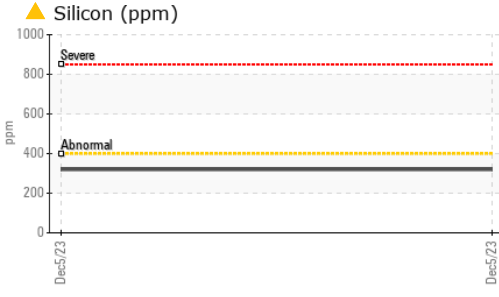
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	<b>▲ 320</b>	---	---
Sodium	ppm	ASTM D5185m	<b>18</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>31</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 3.27	<b>1.15</b>	---	---

# OIL ANALYSIS REPORT

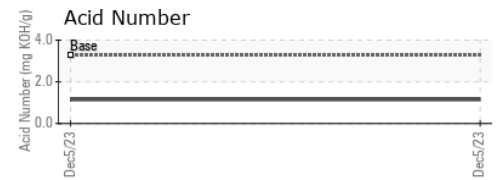
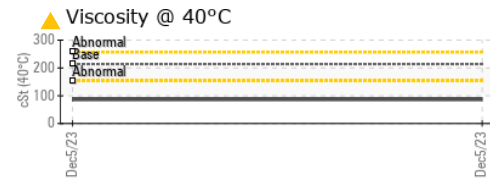
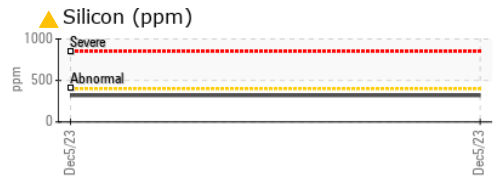
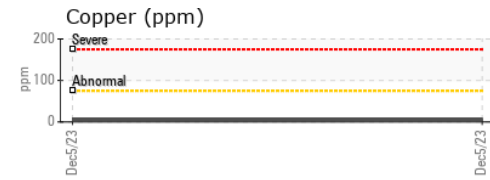
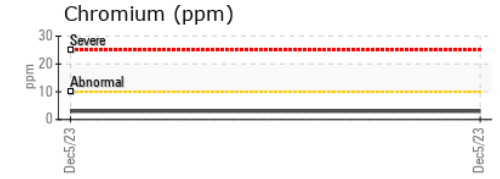
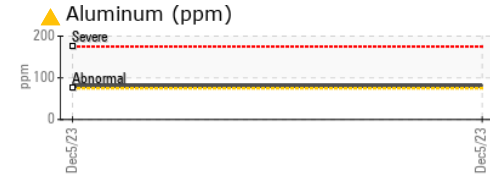
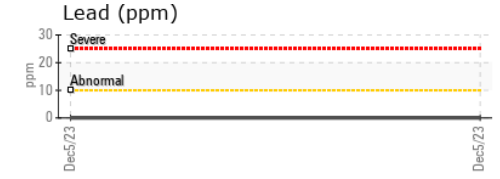
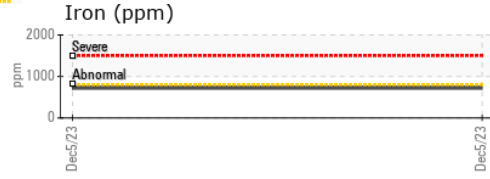


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	MODER	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	213.9 ▲ 86.7	---	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0109548 **Received** : 07 Dec 2023  
**Lab Number** : 06027938 **Diagnosed** : 10 Dec 2023  
**Unique Number** : 10777729 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 2

**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)