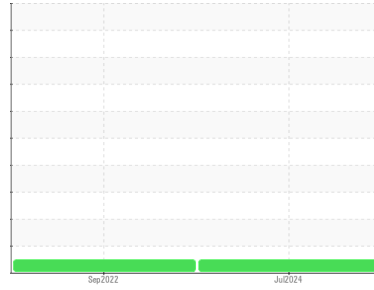


# OIL ANALYSIS REPORT



Area  
**G.LOPES CONSTRUCTION INC./Off-Road**  
 Machine Id  
**E60**  
 Component  
**Swing Drive**  
 Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**

### Sample Rating Trend



**NORMAL**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The water content is negligible. 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>PCA0122722</b>	PCA0078027	---
Sample Date	Client Info		<b>02 Jul 2024</b>	28 Sep 2022	---
Machine Age	hrs	Client Info	<b>12277</b>	11005	---
Oil Age	hrs	Client Info	<b>12277</b>	11005	---
Oil Changed		Client Info	<b>N/A</b>	N/A	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >400	<b>97</b>	145	---
Chromium	ppm	ASTM D5185m >10	<b>2</b>	1	---
Nickel	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m	<b>1</b>	<1	---
Silver	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m >25	<b>4</b>	8	---
Lead	ppm	ASTM D5185m >50	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m >200	<b>40</b>	26	---
Tin	ppm	ASTM D5185m >10	<b>&lt;1</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 2	<b>12</b>	8	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	4	---
Molybdenum	ppm	ASTM D5185m 0	<b>5</b>	4	---
Manganese	ppm	ASTM D5185m 0	<b>2</b>	2	---
Magnesium	ppm	ASTM D5185m 9	<b>65</b>	57	---
Calcium	ppm	ASTM D5185m 3114	<b>3462</b>	3062	---
Phosphorus	ppm	ASTM D5185m 1099	<b>1213</b>	1061	---
Zinc	ppm	ASTM D5185m 1245	<b>1503</b>	1302	---
Sulfur	ppm	ASTM D5185m 7086	<b>13183</b>	13503	---

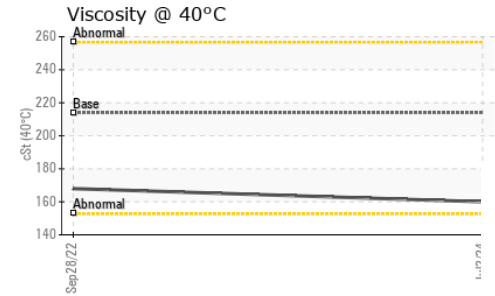
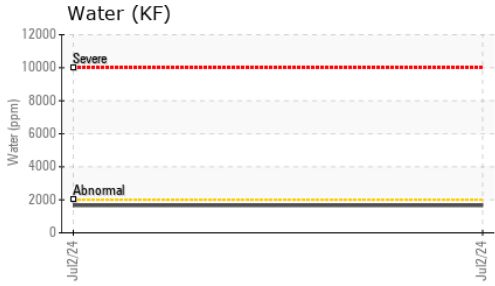
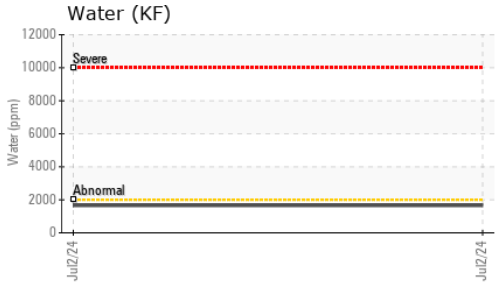
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>18</b>	35	---
Sodium	ppm	ASTM D5185m	<b>1</b>	3	---
Potassium	ppm	ASTM D5185m >20	<b>5</b>	5	---
Water	%	ASTM D6304 >0.2	<b>0.166</b>	---	---
ppm Water	ppm	ASTM D6304 >2000	<b>1660</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 3.27	<b>1.31</b>	1.51	---

# OIL ANALYSIS REPORT



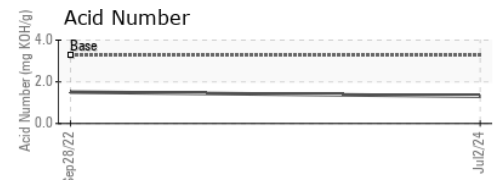
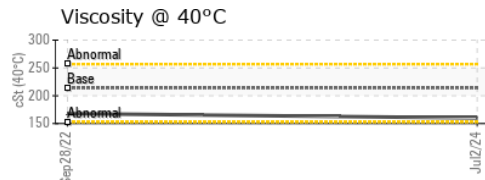
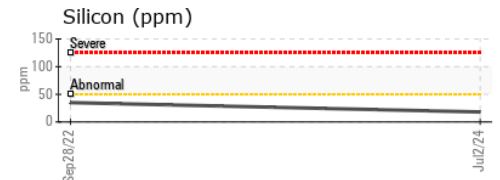
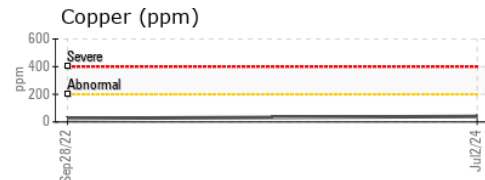
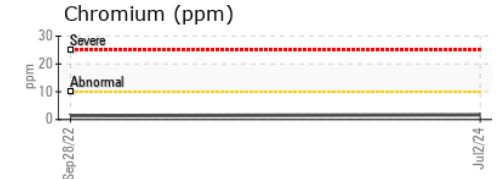
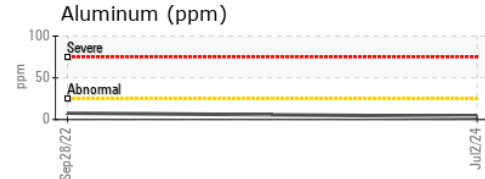
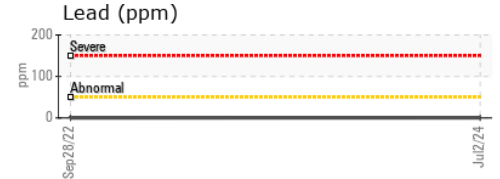
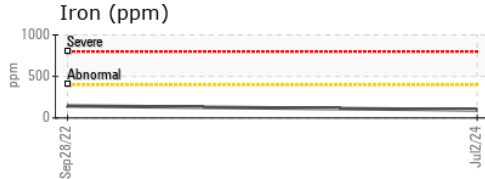
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	213.9	160	168

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0122722      **Received** : 08 Jul 2024  
**Lab Number** : 06230320      **Tested** : 09 Jul 2024  
**Unique Number** : 11113813      **Diagnosed** : 09 Jul 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KF )

**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)