

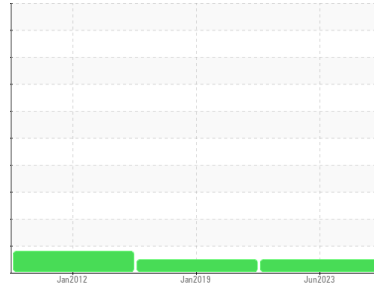
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**G.LOPES CONSTRUCTION INC./Off-Road**  
Machine Id  
**BH65**  
Component  
**Front Differential**  
Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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	history 1	history 2
Sample Number	Client Info	<b>PCA0098357</b>	PCA17178041	PCA46270044
Sample Date	Client Info	<b>28 Jun 2023</b>	02 Jan 2019	26 Jan 2012
Machine Age	hrs Client Info	<b>8757</b>	7596	2042
Oil Age	hrs Client Info	<b>2042</b>	---	2042
Oil Changed	Client Info	<b>N/A</b>	N/A	Changed
Sample Status		<b>NORMAL</b>	NORMAL	SEVERE

## WEAR METALS

method	limit/base	current	history 1	history 2
Iron ppm ASTM D5185m	>500	<b>24</b>	41	76
Chromium ppm ASTM D5185m	>3	<b>0</b>	0	2
Nickel ppm ASTM D5185m	>3	<b>0</b>	0	0
Titanium ppm ASTM D5185m	>2	<b>2</b>	---	---
Silver ppm ASTM D5185m	>2	<b>0</b>	---	---
Aluminum ppm ASTM D5185m	>30	<b>&lt;1</b>	2	0
Lead ppm ASTM D5185m	>13	<b>0</b>	1	3
Copper ppm ASTM D5185m	>103	<b>4</b>	3	13
Tin ppm ASTM D5185m	>5	<b>&lt;1</b>	1	0
Vanadium ppm ASTM D5185m		<b>0</b>	---	---
Cadmium ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history 1	history 2
Boron ppm ASTM D5185m	2	<b>9</b>	4	2
Barium ppm ASTM D5185m	0	<b>24</b>	0	0
Molybdenum ppm ASTM D5185m	0	<b>5</b>	7	1
Manganese ppm ASTM D5185m	0	<b>&lt;1</b>	---	---
Magnesium ppm ASTM D5185m	9	<b>64</b>	17	8
Calcium ppm ASTM D5185m	3114	<b>2944</b>	2724	2598
Phosphorus ppm ASTM D5185m	1099	<b>1015</b>	957	876
Zinc ppm ASTM D5185m	1245	<b>1271</b>	970	970
Sulfur ppm ASTM D5185m	7086	<b>13596</b>	---	---

## CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon ppm ASTM D5185m	>100	<b>13</b>	8	6
Sodium ppm ASTM D5185m		<b>4</b>	1	1
Potassium ppm ASTM D5185m	>20	<b>&lt;1</b>	2	5

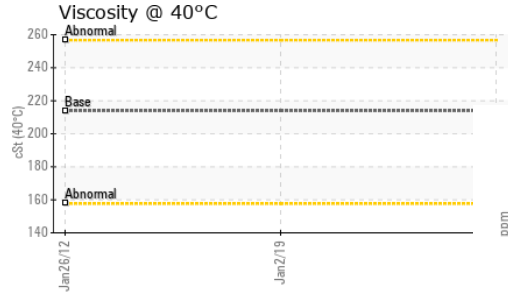
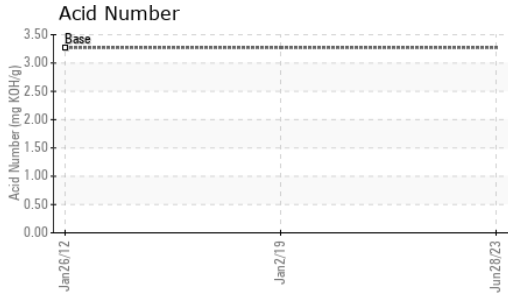
## FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Acid Number (AN) mg KOH/g ASTM D8045	3.27	<b>1.50</b>	---	---

## VISUAL

method	limit/base	current	history 1	history 2
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	>.2	<b>NEG</b>	---	---
Free Water scalar *Visual		<b>NEG</b>	---	---

# OIL ANALYSIS REPORT



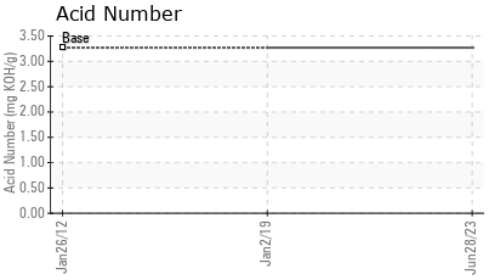
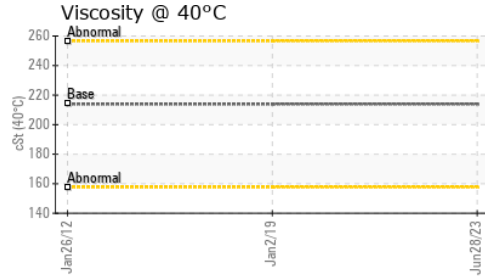
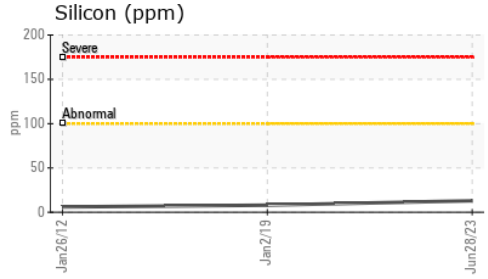
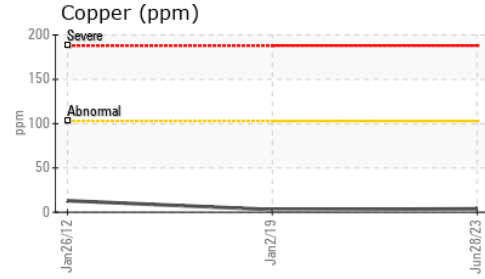
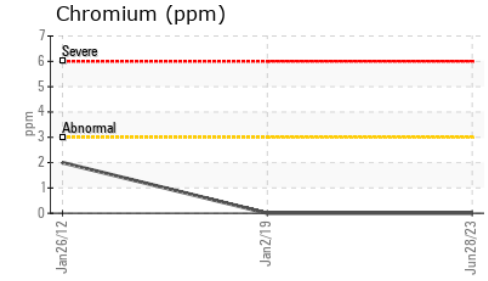
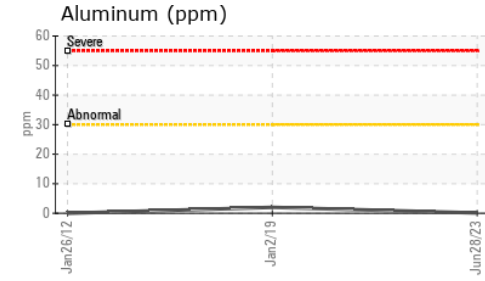
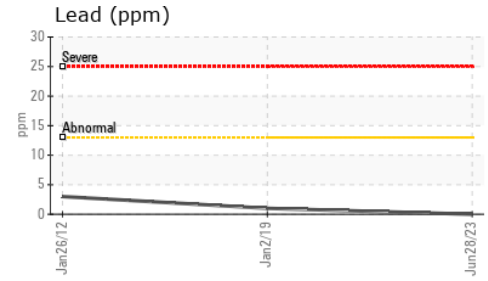
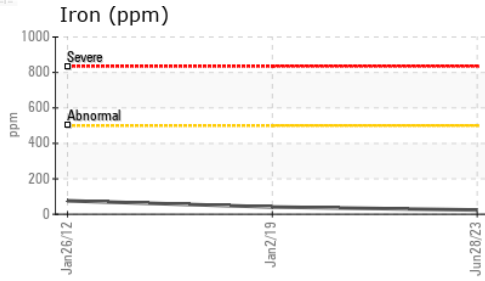
### FLUID PROPERTIES

method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt ASTM D445	213.9	167	---

### SAMPLE IMAGES

method	limit/base	current	history 1	history 2
Color			no image	no image
Bottom			no image	no image

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0098357      **Received** : 30 Jun 2023  
**Lab Number** : 05887952      **Diagnosed** : 04 Jul 2023  
**Unique Number** : 10538435      **Diagnostician** : Don Baldrige  
**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)

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F: