



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
G.LOPES CONSTRUCTION INC./Off-Road

Machine Id
L33
Component
Rear Differential

Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0122607	PCA0071924	PCA46444062
Sample Date		Client Info		23 Apr 2024	02 Aug 2022	24 Aug 2019
Machine Age	hrs	Client Info		11001	7816	1864
Oil Age	hrs	Client Info		11001	7816	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	81	265	117
Chromium	ppm	ASTM D5185m	>3	<1	2	1
Nickel	ppm	ASTM D5185m	>3	0	<1	1
Titanium	ppm	ASTM D5185m	>2	<1	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>30	3	13	9
Lead	ppm	ASTM D5185m	>13	0	<1	0
Copper	ppm	ASTM D5185m	>103	20	▲ 143	▲ 115
Tin	ppm	ASTM D5185m	>5	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

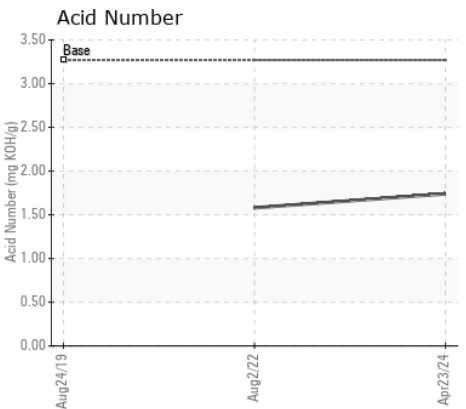
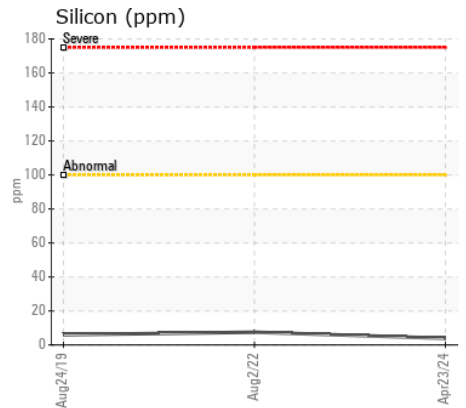
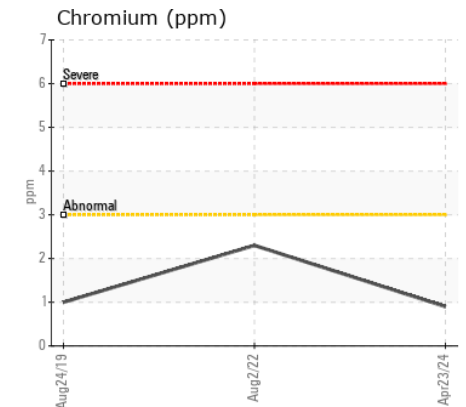
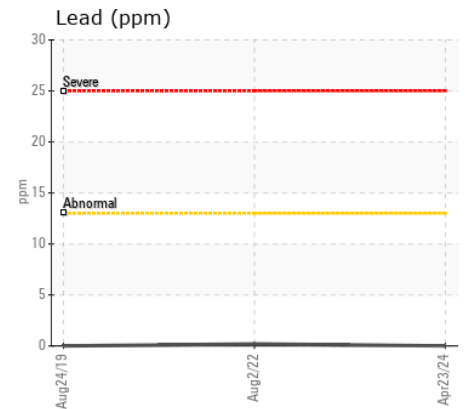
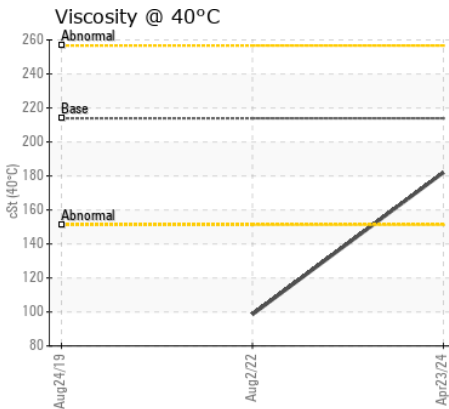
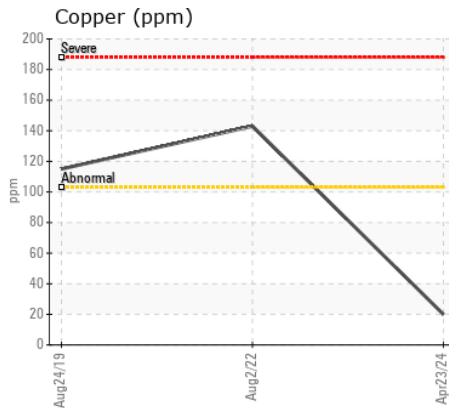
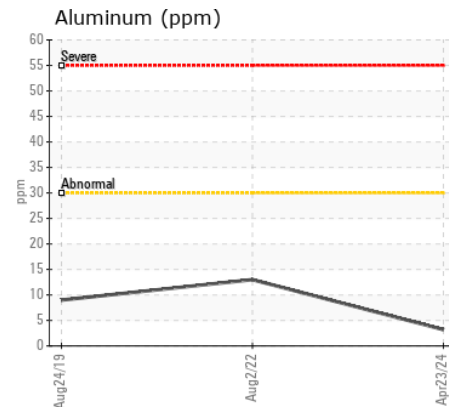
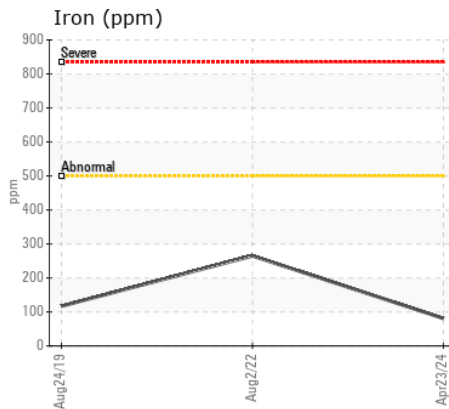
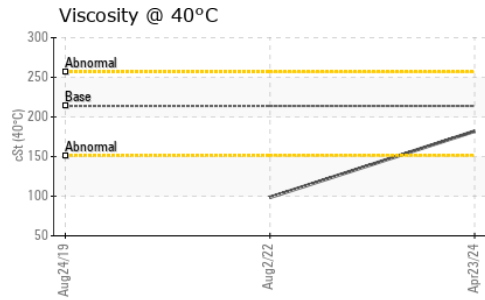
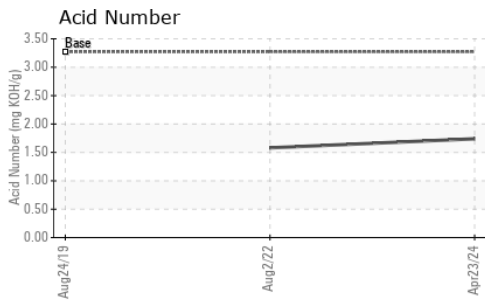
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	4	8	6
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	7	7
Boron	ppm	ASTM D5185m	2	<1	1	2
Barium	ppm	ASTM D5185m	0	0	<1	2
Molybdenum	ppm	ASTM D5185m	0	2	3	3
Manganese	ppm	ASTM D5185m	0	1	4	---
Magnesium	ppm	ASTM D5185m	9	24	11	9
Calcium	ppm	ASTM D5185m	3114	2937	2807	2673
Phosphorus	ppm	ASTM D5185m	1099	1049	933	864
Zinc	ppm	ASTM D5185m	1245	1220	1135	1028
Sulfur	ppm	ASTM D5185m	7086	6828	8009	---
Acid Number (AN)	mg KOH/g	ASTM D8045	3.27	1.74	1.58	---
Visc @ 40°C	cSt	ASTM D445	213.9	182	98.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0122607 **Received** : 26 Apr 2024
Lab Number : 06161663 **Tested** : 29 Apr 2024
Unique Number : 10997086 **Diagnosed** : 29 Apr 2024 - Wes Davis
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)