

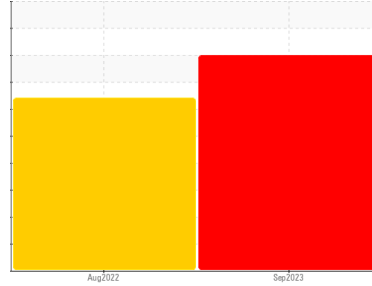
OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area
G.LOPES CONSTRUCTION INC./Off-Road
Machine Id
L336
Component
Rear Differential
Fluid
PETRO CANADA TRAXON 80W90 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

Gear wear is indicated.

Contamination

There is a light concentration of water present in the oil.

Fluid Condition

The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0104548	PCA0078303	---
Sample Date	Client Info		05 Sep 2023	31 Aug 2022	---
Machine Age	hrs	Client Info	8761	7145	---
Oil Age	hrs	Client Info	8761	7145	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			SEVERE	SEVERE	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	1479	1347	---
Chromium	ppm	ASTM D5185m >3	3	3	---
Nickel	ppm	ASTM D5185m >3	<1	3	---
Titanium	ppm	ASTM D5185m >2	<1	<1	---
Silver	ppm	ASTM D5185m >2	0	<1	---
Aluminum	ppm	ASTM D5185m >30	9	12	---
Lead	ppm	ASTM D5185m >13	<1	1	---
Copper	ppm	ASTM D5185m >103	52	100	---
Tin	ppm	ASTM D5185m >5	0	1	---
Vanadium	ppm	ASTM D5185m	0	<1	---
Cadmium	ppm	ASTM D5185m	<1	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 243	7	7	---
Barium	ppm	ASTM D5185m 1	2	1	---
Molybdenum	ppm	ASTM D5185m	10	<1	---
Manganese	ppm	ASTM D5185m	13	12	---
Magnesium	ppm	ASTM D5185m 2	38	12	---
Calcium	ppm	ASTM D5185m 6	2788	2061	---
Phosphorus	ppm	ASTM D5185m 987	982	841	---
Zinc	ppm	ASTM D5185m 1	1146	1041	---
Sulfur	ppm	ASTM D5185m 21530	6119	5455	---

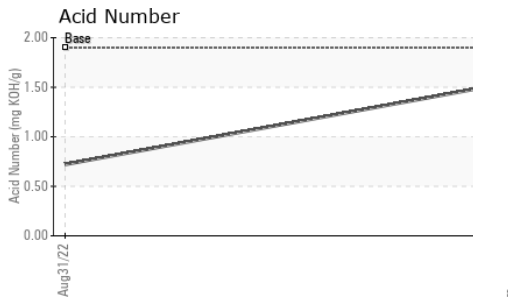
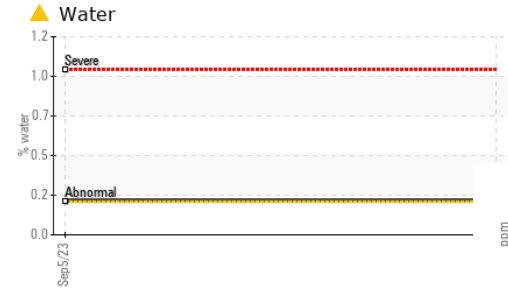
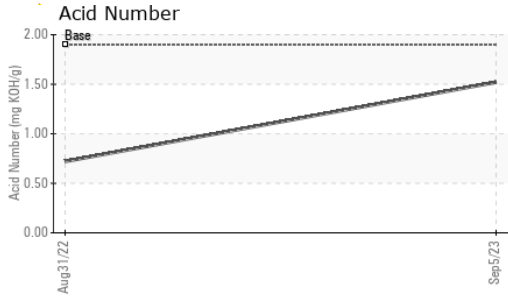
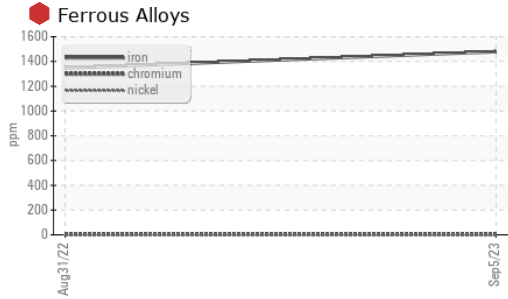
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >100	11	16	---
Sodium	ppm	ASTM D5185m	25	4	---
Potassium	ppm	ASTM D5185m >20	2	<1	---
Water	%	ASTM D6304 >.2	0.207	---	---
ppm Water	ppm	ASTM D6304 >2000	2070	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.9	1.52	0.72	---

OIL ANALYSIS REPORT



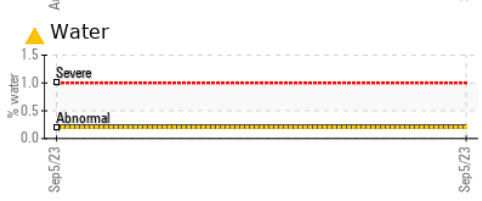
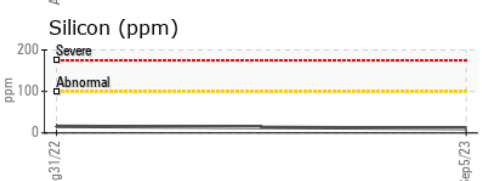
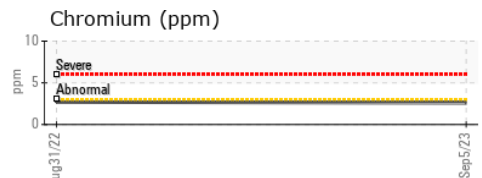
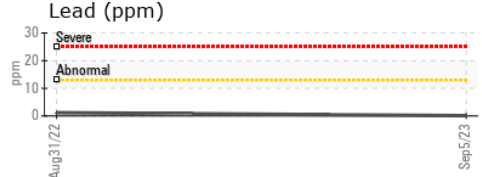
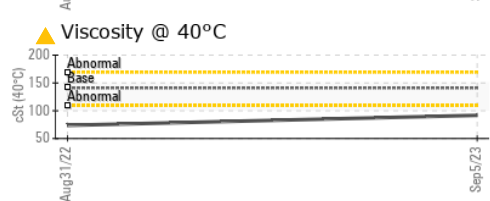
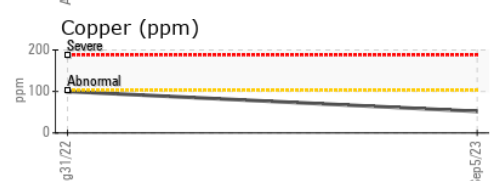
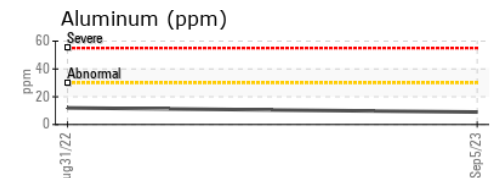
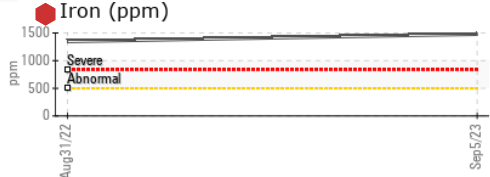
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	141.0 ▲ 91.8	73.7	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

Color				no image	no image	no image
Bottom				no image	no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0104548 **Received** : 07 Sep 2023
Lab Number : 05944725 **Diagnosed** : 09 Sep 2023
Unique Number : 10635337 **Diagnostician** : Don Baldrige
Test Package : MOB 2 (Additional Tests: KF)

G LOPES CONSTRUCTION
 565 WINTHROP ST
 TAUNTON, MA
 US 02780
 Contact: BUTCH MCGRATH
 bmcgrath@glopes.com

Certificate L2367
 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)