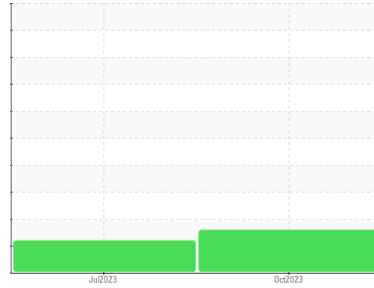


OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area
G.LOPES CONSTRUCTION INC./OFF-ROAD
 Machine Id
L-63
 Component
Front Differential
 Fluid
PETRO CANADA TRAXON 80W90 (--- GAL)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

▲ Wear

Gear wear is indicated. All other metal levels are typical for a new component breaking in.

▲ Contamination

Moderate concentration of visible dirt/debris present in the oil.

▲ Fluid Condition

The oil viscosity is lower than normal. This plus the additive levels indicates 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	PCA0104375	PCA0090748	---
Sample Date	Client Info	18 Oct 2023	03 Jul 2023	---
Machine Age	hrs	Client Info	1145	778
Oil Age	hrs	Client Info	1145	343
Oil Changed	Client Info	N/A	N/A	---
Sample Status		ABNORMAL	ABNORMAL	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	▲ 919	▲ 657
Chromium	ppm	ASTM D5185m >10	3	3
Nickel	ppm	ASTM D5185m >10	<1	0
Titanium	ppm	ASTM D5185m	1	<1
Silver	ppm	ASTM D5185m	0	0
Aluminum	ppm	ASTM D5185m >25	8	6
Lead	ppm	ASTM D5185m >25	<1	<1
Copper	ppm	ASTM D5185m >100	59	46
Tin	ppm	ASTM D5185m >10	0	0
Vanadium	ppm	ASTM D5185m	<1	0
Cadmium	ppm	ASTM D5185m	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 243	<1	0
Barium	ppm	ASTM D5185m 1	4	5
Molybdenum	ppm	ASTM D5185m	14	10
Manganese	ppm	ASTM D5185m	10	8
Magnesium	ppm	ASTM D5185m 2	14	11
Calcium	ppm	ASTM D5185m 6	3499	3113
Phosphorus	ppm	ASTM D5185m 987	1233	1064
Zinc	ppm	ASTM D5185m 1	1476	1274
Sulfur	ppm	ASTM D5185m 21530	5640	4587

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	14	10
Sodium	ppm	ASTM D5185m	<1	0
Potassium	ppm	ASTM D5185m >20	4	2

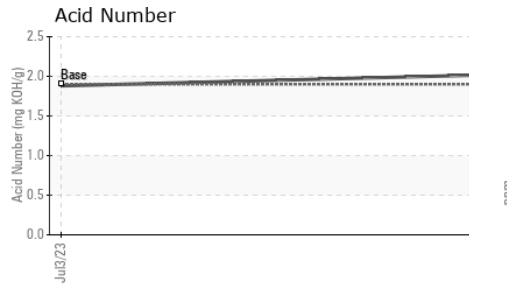
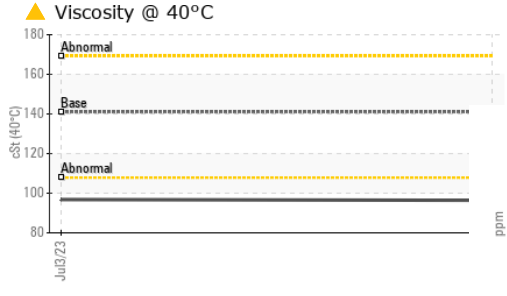
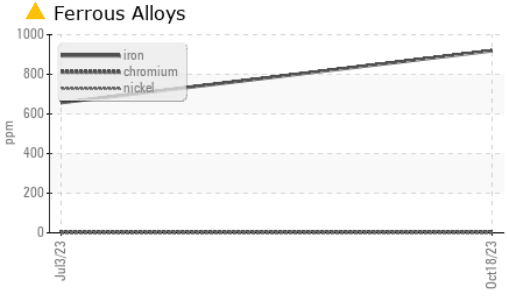
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.9	2.02	1.88

VISUAL

method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	NONE
Yellow Metal	scalar	*Visual NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	LIGHT
Debris	scalar	*Visual NONE	▲ MODER	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
Free Water	scalar	*Visual	NEG	NEG

OIL ANALYSIS REPORT



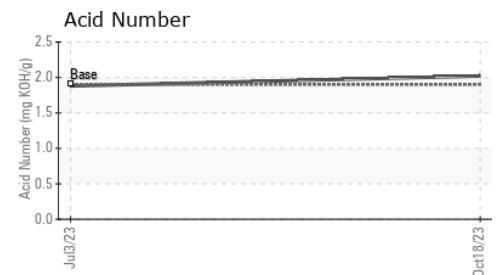
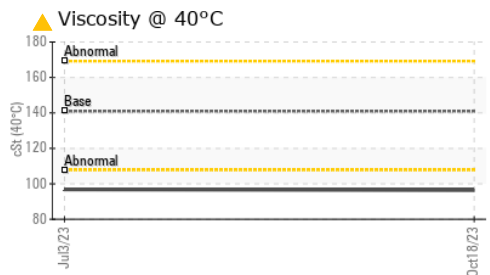
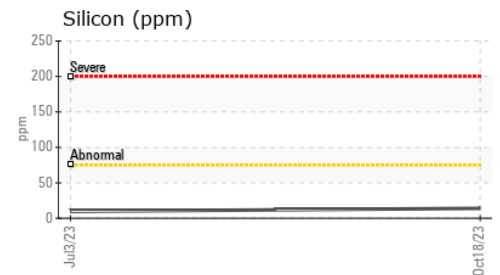
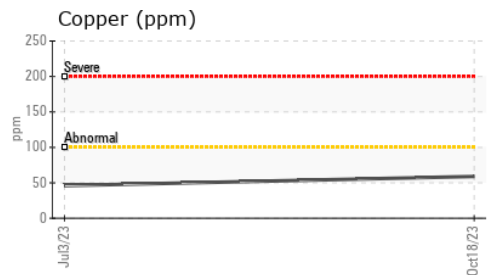
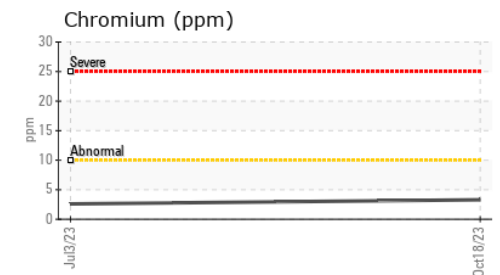
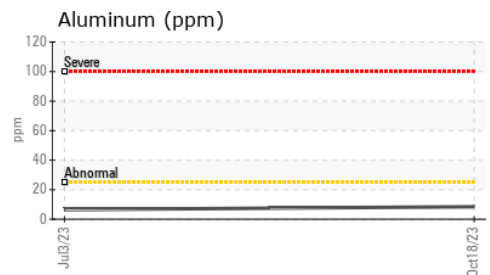
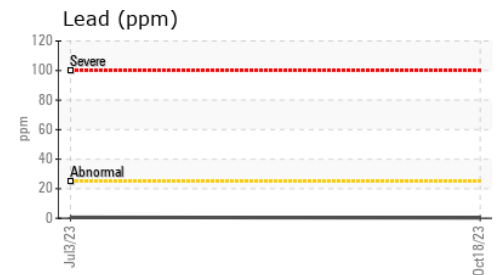
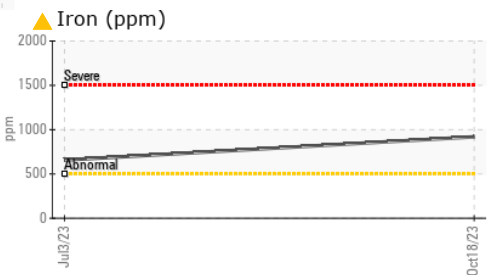
FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	141.0 ▲ 96.4	▲ 96.8	---

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. : PCA0104375 **Received** : 20 Oct 2023
Lab Number : 05985692 **Diagnosed** : 24 Oct 2023
Unique Number : 10702987 **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:

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)