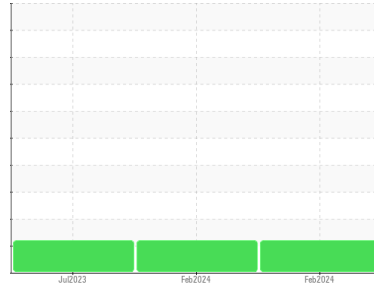


OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Area
G.LOPES CONSTRUCTION INC./OFF-ROAD
 Machine Id
L-63
 Component
Front Left Final Drive
 Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)



DIAGNOSIS

Recommendation
 No corrective action is recommended at this time. Resample at the next service interval to monitor. NOTE: one of two samples received with same ID and sampling date.

Wear
 Gear wear is indicated. All other component wear rates are normal.

Contamination
 There is no indication of any contamination 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	PCA0109640	PCA0098335	PCA0090749
Sample Date	Client Info	15 Feb 2024	14 Feb 2024	03 Jul 2023
Machine Age	hrs	Client Info	1924	343
Oil Age	hrs	Client Info	1924	343
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >500	▲ 805	▲ 753	▲ 662
Chromium	ppm ASTM D5185m >10	3	2	3
Nickel	ppm ASTM D5185m >10	<1	<1	0
Titanium	ppm ASTM D5185m	<1	<1	<1
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >25	3	3	5
Lead	ppm ASTM D5185m >25	0	0	<1
Copper	ppm ASTM D5185m >50	50	48	46
Tin	ppm ASTM D5185m >10	0	0	0
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	0	0	0
Barium	ppm ASTM D5185m 0	13	13	5
Molybdenum	ppm ASTM D5185m 0	10	10	10
Manganese	ppm ASTM D5185m 0	9	8	8
Magnesium	ppm ASTM D5185m 9	10	10	11
Calcium	ppm ASTM D5185m 3114	2835	2721	3112
Phosphorus	ppm ASTM D5185m 1099	1073	1042	1071
Zinc	ppm ASTM D5185m 1245	1246	1167	1281
Sulfur	ppm ASTM D5185m 7086	4592	4523	4777

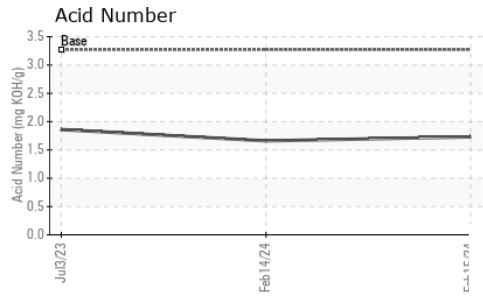
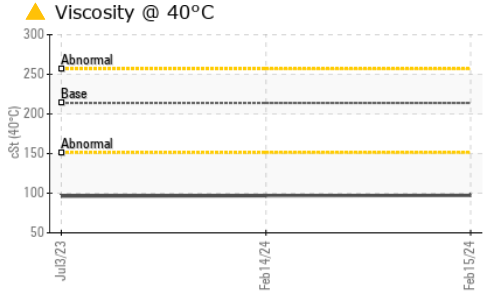
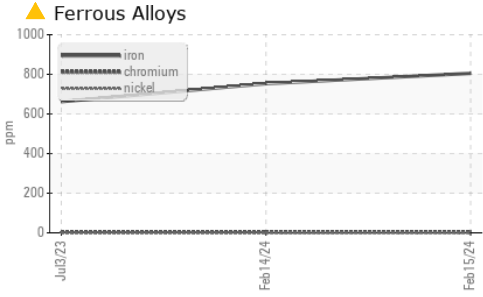
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >75	6	5	6
Sodium	ppm ASTM D5185m	0	0	0
Potassium	ppm ASTM D5185m >20	2	2	2

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 3.27	1.73	1.66	1.86

OIL ANALYSIS REPORT

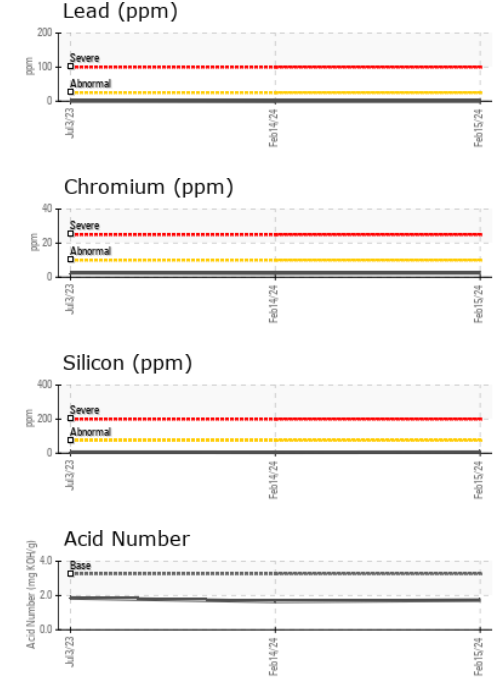
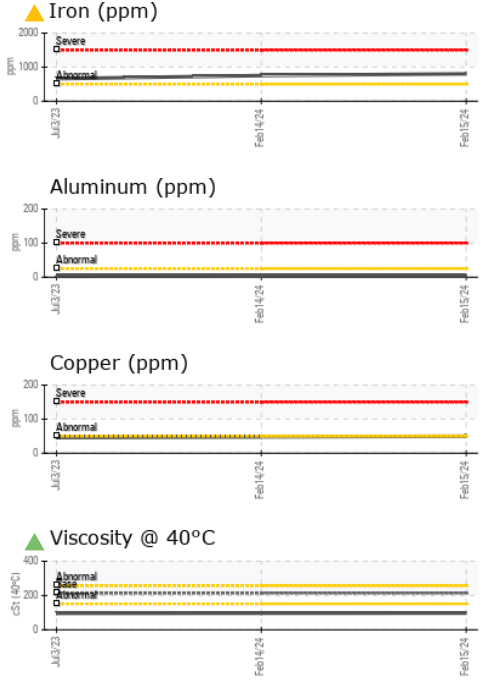


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	LIGHT
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	213.9 ▲ 97.2	▲ 96.8	▲ 96.4

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. : PCA0109640 **Received** : 19 Feb 2024
Lab Number : 06093144 **Tested** : 20 Feb 2024
Unique Number : 10885997 **Diagnosed** : 21 Feb 2024 - Don Baldrige
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)