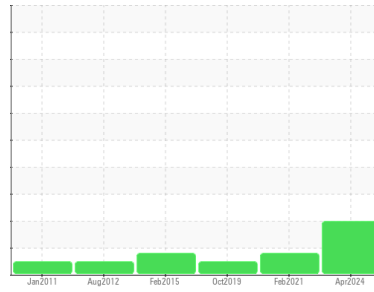


OIL ANALYSIS REPORT



Area
G.LOPES CONSTRUCTION INC./Off-Road
Machine Id
L36
Component
Hydraulic System
Fluid
PETRO CANADA DURATRAN (--- GAL)

Sample Rating Trend



ISO



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present 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	history1	history2
Sample Number	Client Info	PCA0023318	PCA0041193	PCA01323069
Sample Date	Client Info	01 Apr 2024	23 Feb 2021	22 Oct 2019
Machine Age	hrs	15219	13516	12087
Oil Age	hrs	1703	0	---
Oil Changed	Client Info	N/A	Changed	N/A
Sample Status		ABNORMAL	ABNORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	17	15	22
Chromium	ppm	ASTM D5185m >10	<1	<1	0
Nickel	ppm	ASTM D5185m >10	0	0	0
Titanium	ppm	ASTM D5185m	<1	<1	---
Silver	ppm	ASTM D5185m	0	<1	---
Aluminum	ppm	ASTM D5185m >10	2	<1	2
Lead	ppm	ASTM D5185m >10	2	1	2
Copper	ppm	ASTM D5185m >75	10	7	7
Tin	ppm	ASTM D5185m >10	<1	<1	0
Antimony	ppm	ASTM D5185m	---	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	<1	<1	---

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 110	110	102	69
Barium	ppm	ASTM D5185m 0.0	0	0	0
Molybdenum	ppm	ASTM D5185m 0.0	7	7	4
Manganese	ppm	ASTM D5185m 1	0	<1	---
Magnesium	ppm	ASTM D5185m 13	102	93	117
Calcium	ppm	ASTM D5185m 3610	3187	3032	2330
Phosphorus	ppm	ASTM D5185m 1192	1190	1103	1008
Zinc	ppm	ASTM D5185m 1455	1413	1233	980
Sulfur	ppm	ASTM D5185m 2641	6612	5036	---

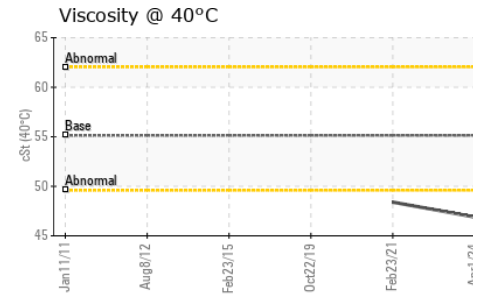
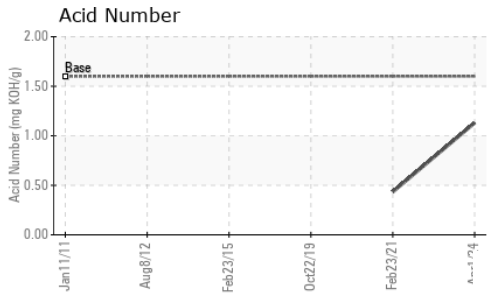
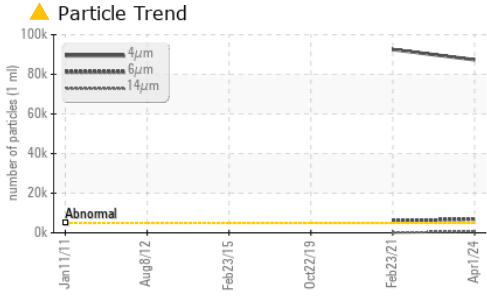
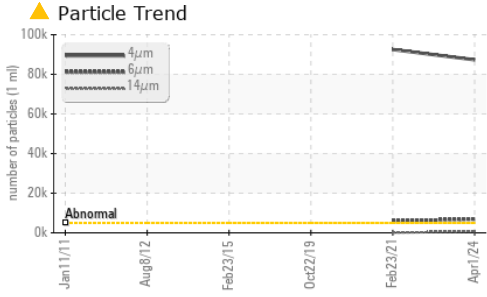
CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >20	10	10	9
Sodium	ppm	ASTM D5185m	5	2	3
Potassium	ppm	ASTM D5185m >20	3	1	0

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 87332	▲ 92523	---
Particles >6µm	ASTM D7647 >1300	▲ 6873	▲ 5979	---
Particles >14µm	ASTM D7647 >160	▲ 635	61	---
Particles >21µm	ASTM D7647 >40	▲ 172	12	---
Particles >38µm	ASTM D7647 >10	7	0	---
Particles >71µm	ASTM D7647 >3	0	0	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 24/20/16	▲ 24/20/13	---

OIL ANALYSIS REPORT

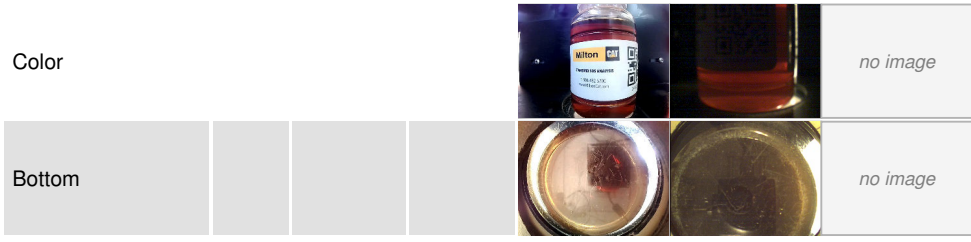


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.6	1.13	0.433	---

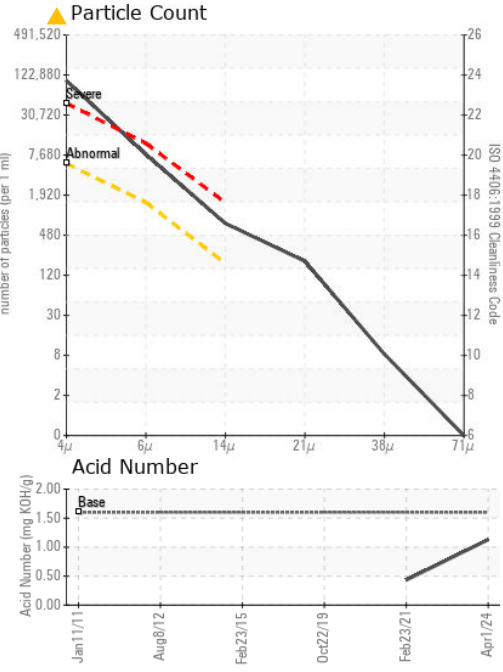
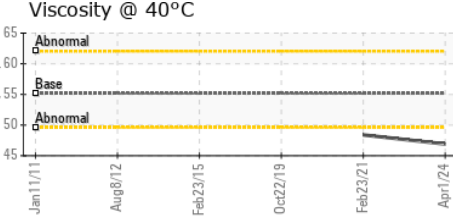
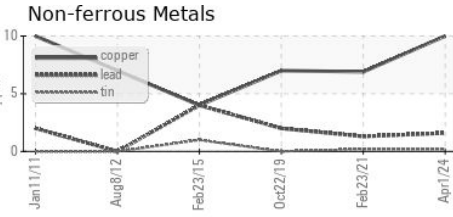
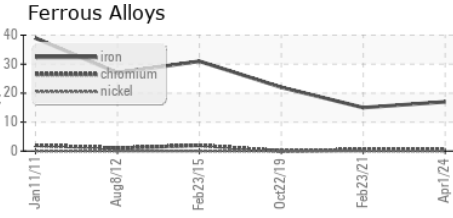
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---
Free Water	scalar	*Visual		NEG	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	55.14	46.9	48.4	---

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0023318 **Received** : 03 Apr 2024
Lab Number : **06137349** **Tested** : 04 Apr 2024
Unique Number : 10956814 **Diagnosed** : 05 Apr 2024 - Jonathan Hester
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)