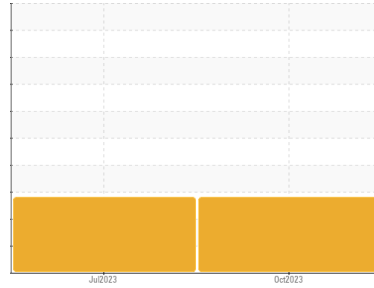


OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area
G.LOPES CONSTRUCTION INC./OFF-ROAD
 Machine Id
L-63
 Component
Hydraulic System
 Fluid
PETRO CANADA DURATRAN (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 6 microns in size) 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	PCA0098626	PCA0098541	---
Sample Date	Client Info	18 Oct 2023	03 Jul 2023	---
Machine Age	hrs	Client Info	1513	343
Oil Age	hrs	Client Info	1513	343
Oil Changed	Client Info	N/A	N/A	---
Sample Status		ATTENTION	ATTENTION	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	4	3
Chromium	ppm	ASTM D5185m >10	<1	<1
Nickel	ppm	ASTM D5185m >10	0	0
Titanium	ppm	ASTM D5185m	0	0
Silver	ppm	ASTM D5185m	0	0
Aluminum	ppm	ASTM D5185m >10	2	<1
Lead	ppm	ASTM D5185m >10	<1	0
Copper	ppm	ASTM D5185m >75	4	3
Tin	ppm	ASTM D5185m >10	<1	0
Vanadium	ppm	ASTM D5185m	0	<1
Cadmium	ppm	ASTM D5185m	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 110	▲ 0	▲ 0
Barium	ppm	ASTM D5185m 0.0	0	1
Molybdenum	ppm	ASTM D5185m 0.0	0	<1
Manganese	ppm	ASTM D5185m 1	<1	0
Magnesium	ppm	ASTM D5185m 13	1	5
Calcium	ppm	ASTM D5185m 3610	▲ 214	▲ 217
Phosphorus	ppm	ASTM D5185m 1192	▲ 744	▲ 703
Zinc	ppm	ASTM D5185m 1455	930	▲ 910
Sulfur	ppm	ASTM D5185m 2641	▲ 1787	2058

CONTAMINANTS

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

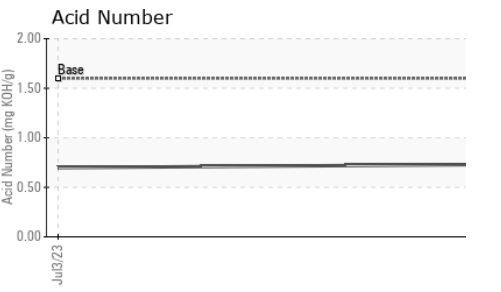
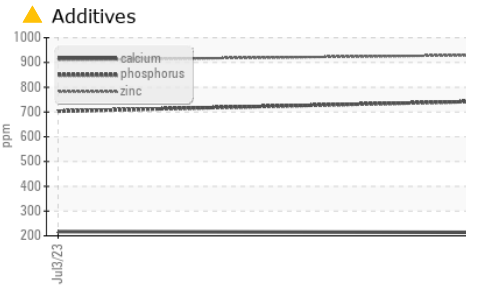
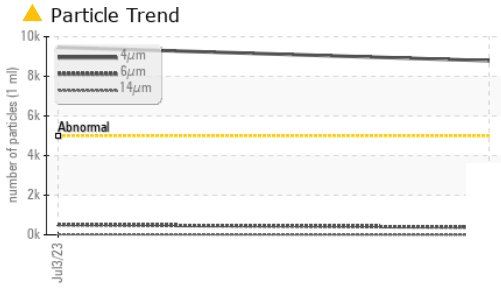
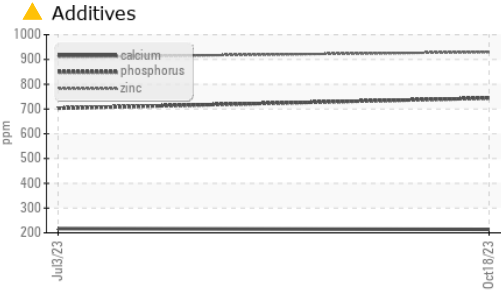
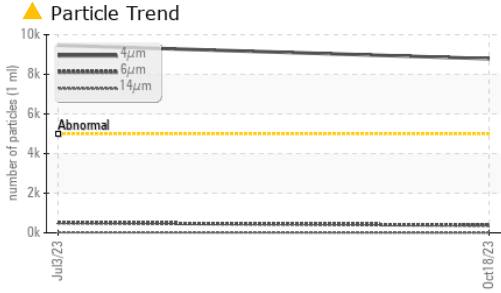
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 8787	▲ 9466
Particles >6µm	ASTM D7647	>1300	380	506
Particles >14µm	ASTM D7647	>160	12	27
Particles >21µm	ASTM D7647	>40	3	9
Particles >38µm	ASTM D7647	>10	0	1
Particles >71µm	ASTM D7647	>3	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 20/16/11	▲ 20/16/12

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.6	0.73	0.698

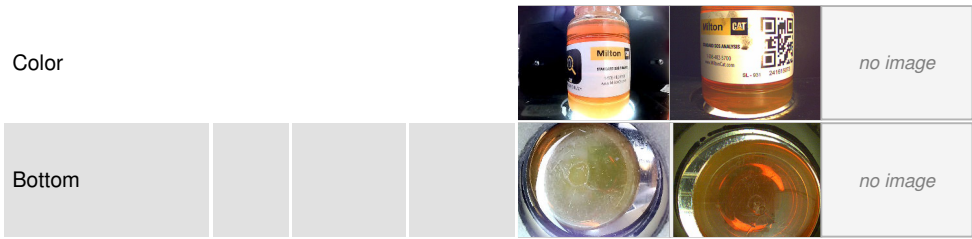
OIL ANALYSIS REPORT



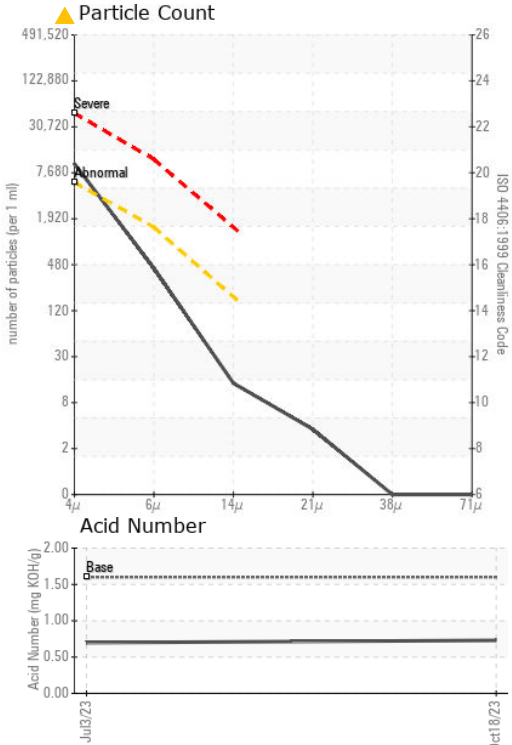
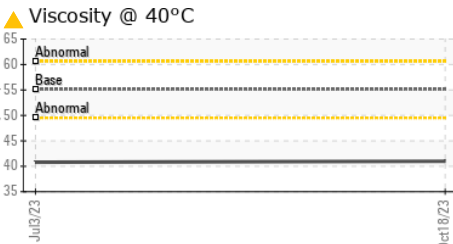
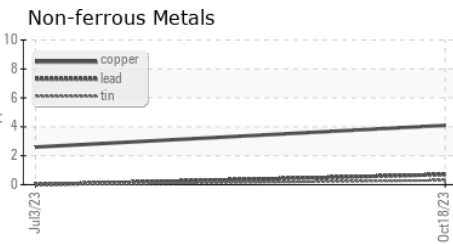
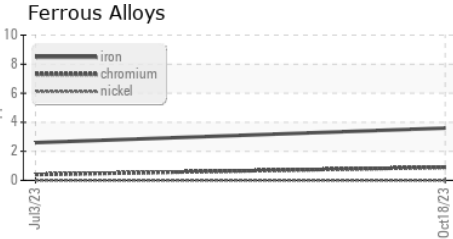
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	55.14 ▲ 41.0	▲ 40.8	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0098626 **Received** : 20 Oct 2023
Lab Number : 05985501 **Diagnosed** : 24 Oct 2023
Unique Number : 10702796 **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:

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)