



Area
G.LOPES CONSTRUCTION INC./Off-Road
Machine Id
D870
Component
Front Left Final Drive
Fluid
MOBIL MOBILTRANS HD 50 (--- GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0122724	PCA44186016	PCA47461046
Sample Date		Client Info		02 Jul 2024	05 Feb 2018	14 Apr 2015
Machine Age	hrs	Client Info		21293	4922	2449
Oil Age	hrs	Client Info		10275	---	2000
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Not Changed
Sample Status				ABNORMAL	SEVERE	SEVERE

WEAR

The copper level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>800	305	191	▲ 935
Chromium	ppm	ASTM D5185m	>10	3	1	9
Nickel	ppm	ASTM D5185m	>5	1	0	1
Titanium	ppm	ASTM D5185m	>15	2	---	---
Silver	ppm	ASTM D5185m	>2	<1	---	---
Aluminum	ppm	ASTM D5185m	>75	18	4	116
Lead	ppm	ASTM D5185m	>10	2	1	0
Copper	ppm	ASTM D5185m	>75	▲ 126	▲ 40	17
Tin	ppm	ASTM D5185m	>8	1	0	0
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

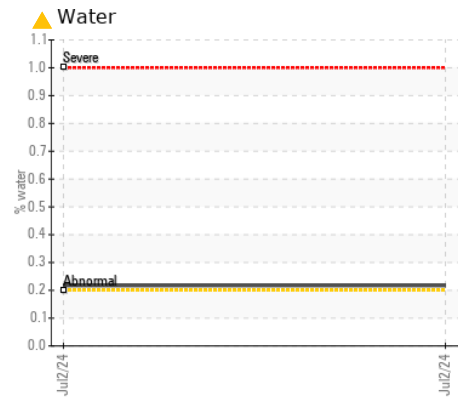
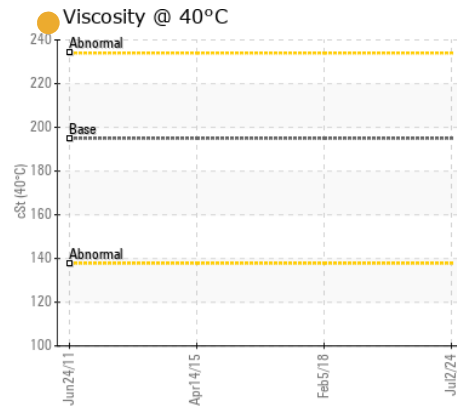
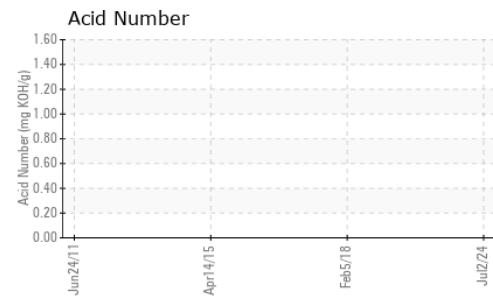
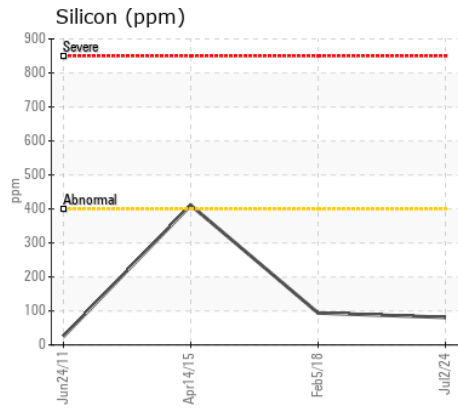
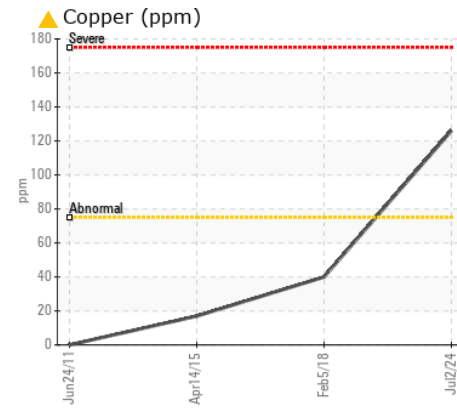
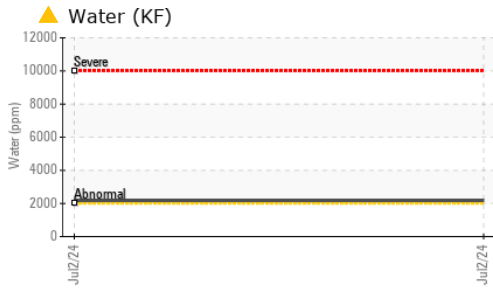
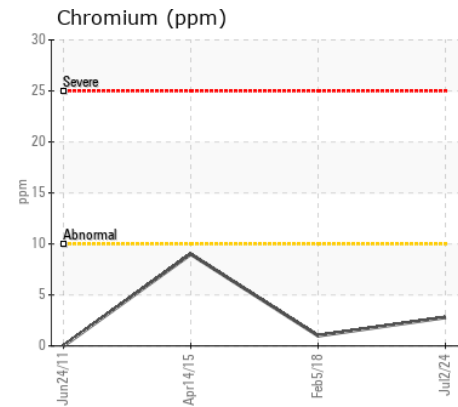
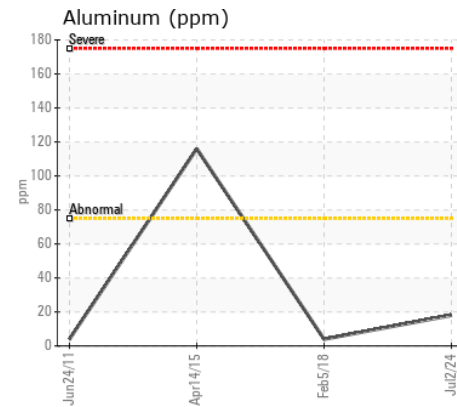
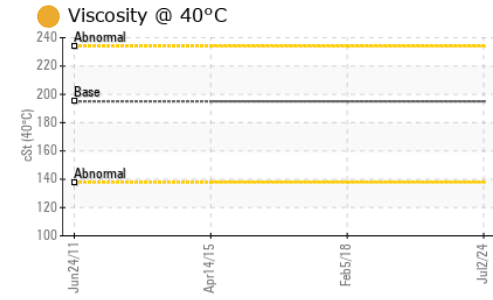
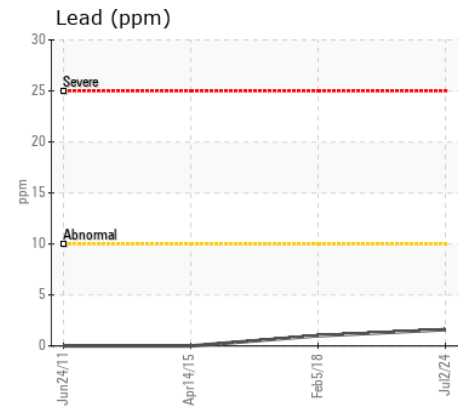
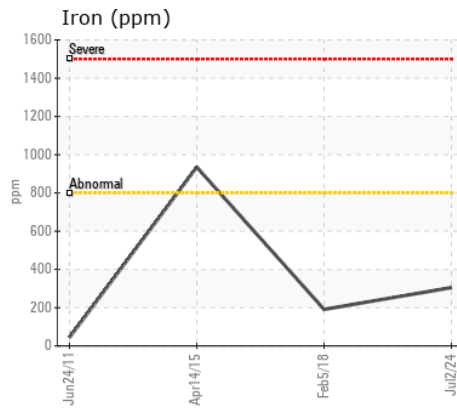
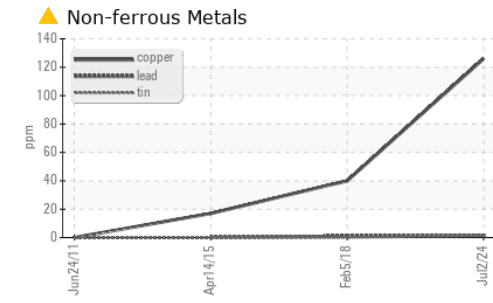
There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>400	81	▲ 94	▲ 411
Potassium	ppm	ASTM D5185m	>20	13	1	35
Water	%	ASTM D6304	>0.2	▲ 0.217	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2170	---	---
Silt	scalar	*Visual	NONE	MODER	---	---
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	>0.2	0.2%	---	---

FLUID CONDITION

The oil viscosity is lower than normal. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		18	6	25
Boron	ppm	ASTM D5185m		8	1	6
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		6	0	10
Manganese	ppm	ASTM D5185m		3	---	---
Magnesium	ppm	ASTM D5185m		33	14	54
Calcium	ppm	ASTM D5185m		2826	2406	3241
Phosphorus	ppm	ASTM D5185m		991	998	1140
Zinc	ppm	ASTM D5185m		1238	899	1329
Sulfur	ppm	ASTM D5185m		9341	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.47	---	---
Visc @ 40°C	cSt	ASTM D445	195	● 101	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0122724 **Received** : 08 Jul 2024
Lab Number : 06230322 **Tested** : 09 Jul 2024
Unique Number : 11113815 **Diagnosed** : 10 Jul 2024 - Don Baldridge
Test Package : MOB 2 (Additional Tests: KF)

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)

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