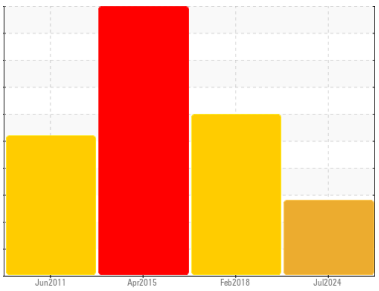
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

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

DIAGNOSIS

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

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

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

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

SAMPLE INFORMATION		method	limit/base	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
Oil Changed		Client Info		**N/A**	N/A	Changed
Sample Status				**ABNORMAL**	SEVERE	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
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**	---	---
Cadmium	ppm	ASTM D5185m		**<1**	---	---

ADDITIVES		method	limit/base	current	history1	history2
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**	---	---

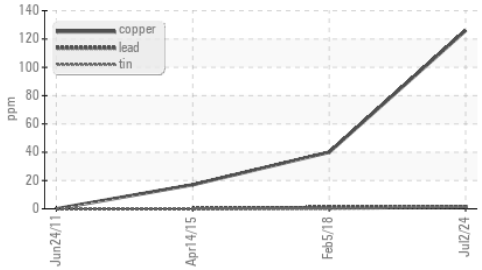
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	**81**	▲ 94	▲ 411
Sodium	ppm	ASTM D5185m		**18**	6	25
Potassium	ppm	ASTM D5185m	>20	**13**	1	35
Water	%	ASTM D6304	>0.2	▲ **0.217**	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ **2170**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.47**	---	---

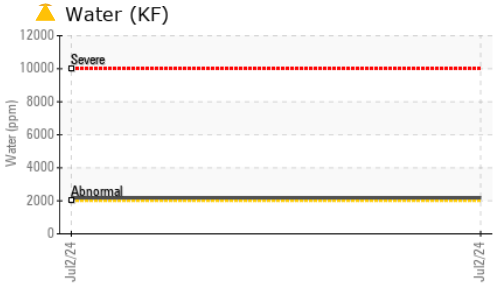
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

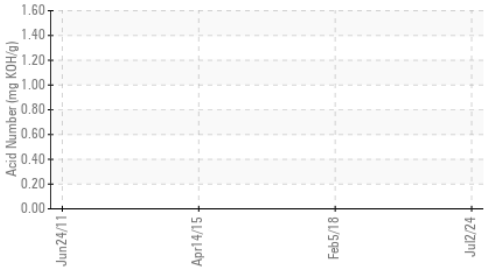
Non-ferrous Metals



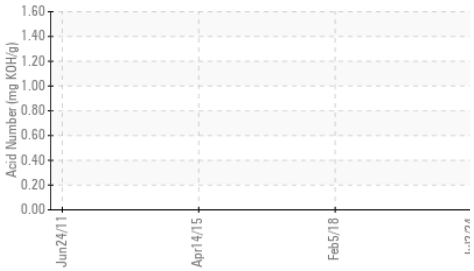
Water (KF)



Acid Number

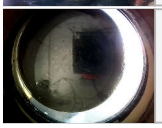


Acid Number



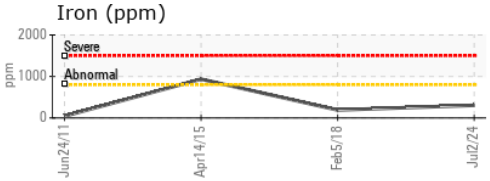
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**MODER**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	195	**101**	---	---

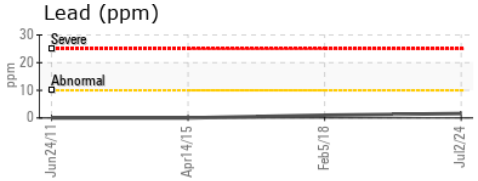
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

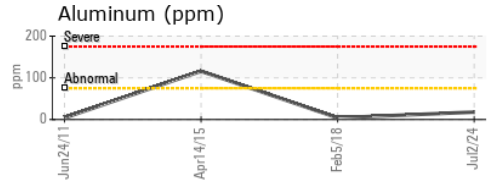
Iron (ppm)



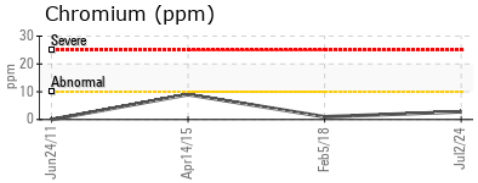
Lead (ppm)



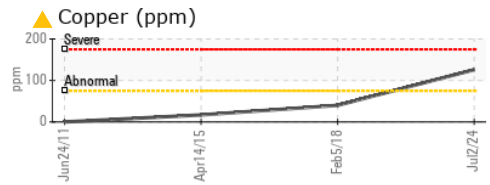
Aluminum (ppm)



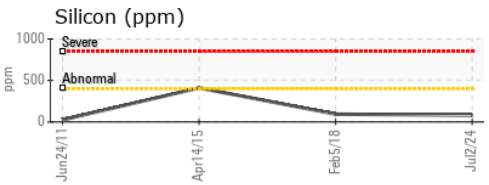
Chromium (ppm)



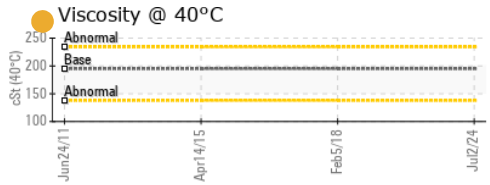
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Water

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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Report Id: GLOTAU [WUSCAR] 06230322 (Generated: 07/10/2024 09:55:34) Rev: 1

Submitted By: MATT MANOLI