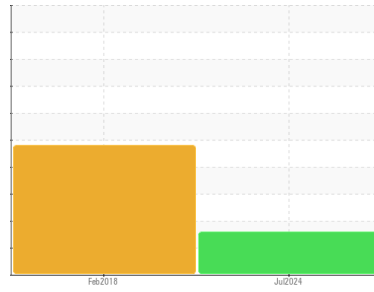


# OIL ANALYSIS REPORT



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

### Sample Rating Trend



**WATER**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a light concentration of water 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	<b>PCA0122723</b>	PCA44186001	---
Sample Date	Client Info	<b>02 Jul 2024</b>	05 Feb 2018	---
Machine Age	hrs	Client Info	<b>21293</b>	4922
Oil Age	hrs	Client Info	<b>21293</b>	---
Oil Changed	Client Info	<b>N/A</b>	N/A	---
Sample Status		<b>MARGINAL</b>	SEVERE	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >800	<b>341</b>	114
Chromium	ppm	ASTM D5185m >10	<b>4</b>	0
Nickel	ppm	ASTM D5185m >5	<b>1</b>	0
Titanium	ppm	ASTM D5185m >15	<b>2</b>	---
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	---
Aluminum	ppm	ASTM D5185m >75	<b>11</b>	8
Lead	ppm	ASTM D5185m >10	<b>&lt;1</b>	0
Copper	ppm	ASTM D5185m >75	<b>10</b>	1
Tin	ppm	ASTM D5185m >8	<b>&lt;1</b>	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>12</b>	8
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	0
Molybdenum	ppm	ASTM D5185m	<b>6</b>	2
Manganese	ppm	ASTM D5185m	<b>4</b>	---
Magnesium	ppm	ASTM D5185m	<b>35</b>	19
Calcium	ppm	ASTM D5185m	<b>2976</b>	2221
Phosphorus	ppm	ASTM D5185m	<b>1045</b>	917
Zinc	ppm	ASTM D5185m	<b>1285</b>	854
Sulfur	ppm	ASTM D5185m	<b>10121</b>	---

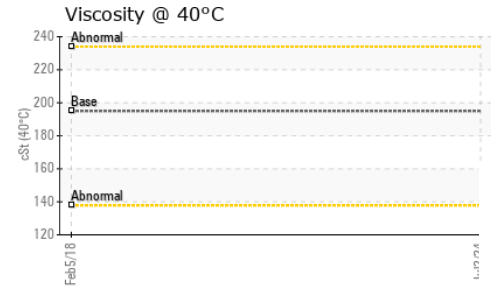
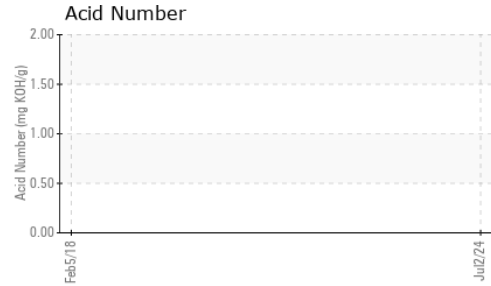
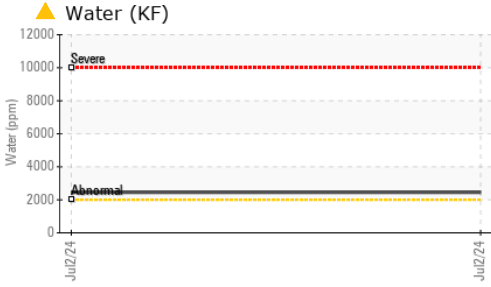
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >400	<b>56</b>	▲ 26
Sodium	ppm	ASTM D5185m	<b>6</b>	5
Potassium	ppm	ASTM D5185m >20	<b>6</b>	2
Water	%	ASTM D6304 >0.2	<b>▲ 0.245</b>	---
ppm Water	ppm	ASTM D6304 >2000	<b>▲ 2450</b>	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.89</b>	---


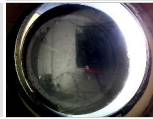
# OIL ANALYSIS REPORT



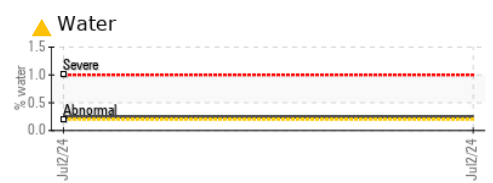
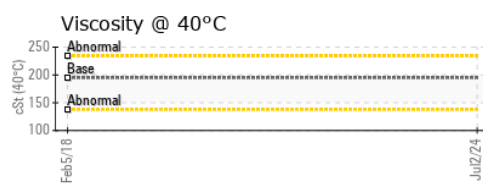
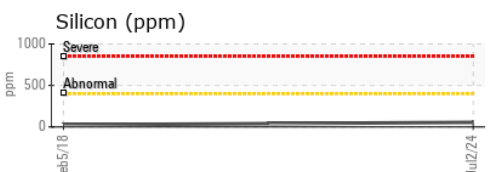
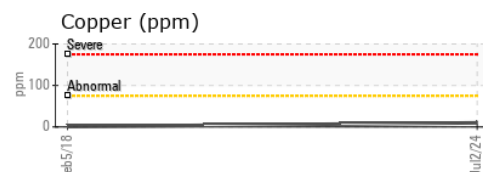
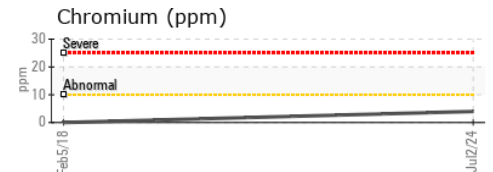
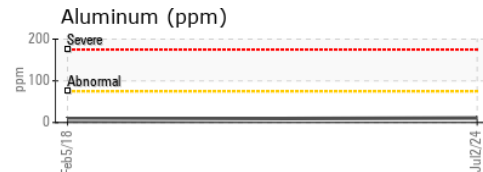
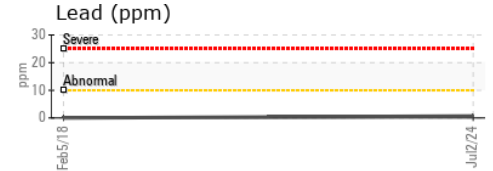
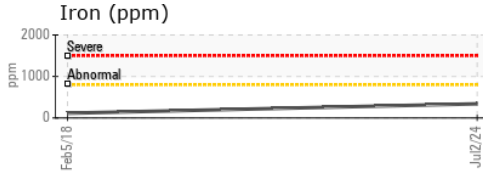
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	195	157	---

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0122723      **Received** : 08 Jul 2024  
**Lab Number** : 06230319      **Tested** : 09 Jul 2024  
**Unique Number** : 11113812      **Diagnosed** : 10 Jul 2024 - Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: KF )

**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)