



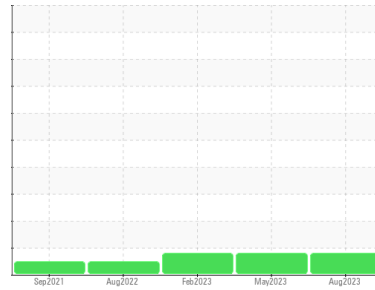
# OIL ANALYSIS REPORT

Sample Rating Trend

**WEAR**



Machine Id  
**801147**  
 Component  
**Transmission (Auto)**  
 Fluid  
**ALLISON TES 295 (--- GAL)**



## DIAGNOSIS

### Recommendation

The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

Aluminum ppm levels are abnormal. Torque converter wear is indicated.

### Contamination

There is no indication of any contamination in the fluid.

### Fluid Condition

The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>GFL0084192</b>	GFL0073075	GFL0063614
Sample Date	Client Info	<b>29 Aug 2023</b>	05 May 2023	01 Feb 2023
Machine Age	hrs	<b>15146</b>	14404	13816
Oil Age	hrs	<b>600</b>	600	600
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >160	<b>52</b>	44	39
Chromium	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >50	<b>▲ 53</b>	▲ 45	▲ 39
Lead	ppm	ASTM D5185(m) >50	<b>4</b>	4	4
Copper	ppm	ASTM D5185(m) >225	<b>20</b>	21	20
Tin	ppm	ASTM D5185(m) >10	<b>3</b>	3	3
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m) 150	<b>68</b>	74	81
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 0	<b>3</b>	3	3
Calcium	ppm	ASTM D5185(m) 40	<b>125</b>	134	135
Phosphorus	ppm	ASTM D5185(m) 320	<b>254</b>	276	275
Zinc	ppm	ASTM D5185(m) 5	<b>12</b>	10	9
Sulfur	ppm	ASTM D5185(m) 1050	<b>1458</b>	1543	1552
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

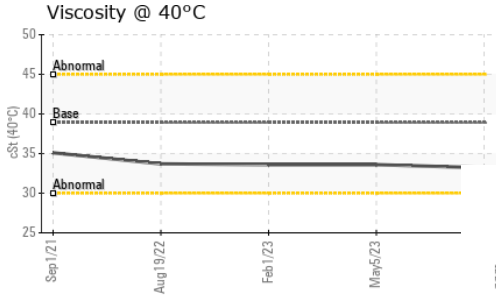
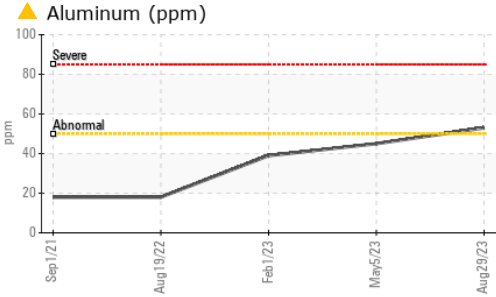
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >20	<b>12</b>	12	11
Sodium	ppm	ASTM D5185(m)	<b>9</b>	7	6
Potassium	ppm	ASTM D5185(m) >20	<b>2</b>	2	2

## VISUAL

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

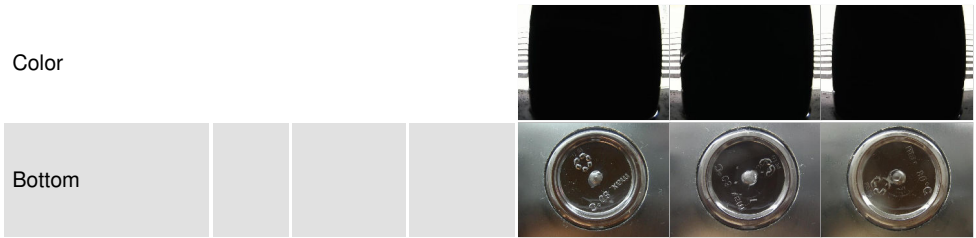


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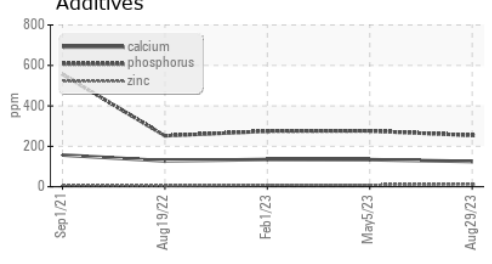
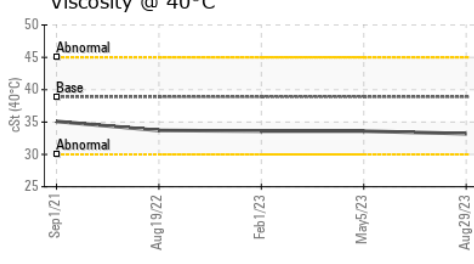
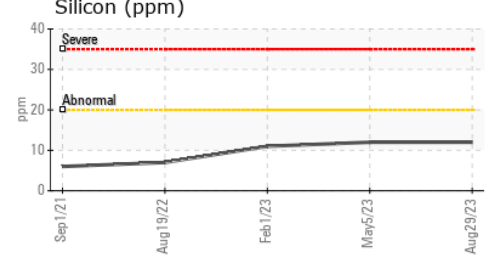
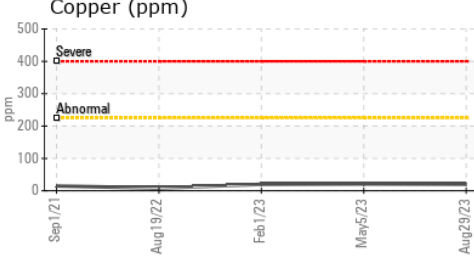
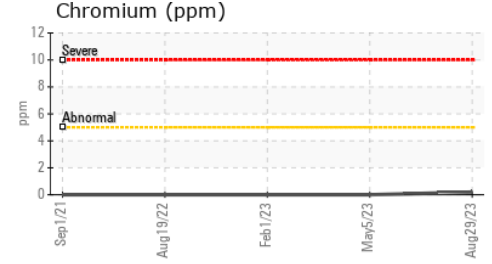
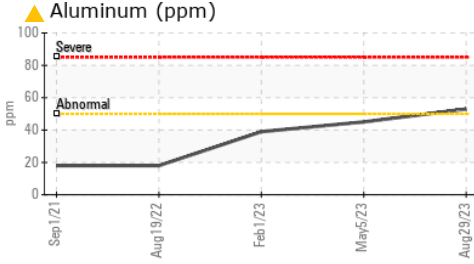
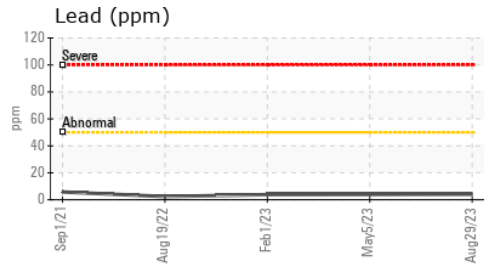
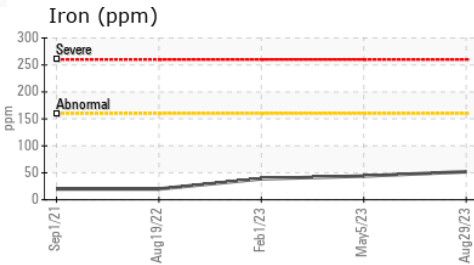


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	<b>33.2</b>	33.6	33.6

SAMPLE IMAGES		method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 573 - Vancouver Hauling  
**Sample No.** : GFL0084192 **Received** : 08 Sep 2023 70 Golden Drive,  
**Lab Number** : **02581182** **Diagnosed** : 08 Sep 2023 Coquitlam, BC  
**Unique Number** : 5642247 **Diagnostician** : Kevin Marson CA V3K 6B5  
**Test Package** : MOB 1 Contact: Catia Klagenberg Alves  
cklagenbergalves@gflenv.com

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T:  
 Validity of results and interpretation are based on the sample and information as supplied. F: