



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**WL0424**  
Component  
**Hydraulic System**  
Fluid  
**CAT TDTO 10W (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>GFL0077023</b>	---	---
Sample Date	Client Info		<b>09 Aug 2023</b>	---	---
Machine Age	kms Client Info		<b>6420</b>	---	---
Oil Age	kms Client Info		<b>0</b>	---	---
Oil Changed	Client Info		<b>Not Chngd</b>	---	---
Sample Status			<b>NORMAL</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m)	>20	<b>2</b>	---	---
Chromium	ppm ASTM D5185(m)	>10	<b>&lt;1</b>	---	---
Nickel	ppm ASTM D5185(m)	>10	<b>0</b>	---	---
Titanium	ppm ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm ASTM D5185(m)		<b>0</b>	---	---
Aluminum	ppm ASTM D5185(m)	>10	<b>1</b>	---	---
Lead	ppm ASTM D5185(m)	>10	<b>0</b>	---	---
Copper	ppm ASTM D5185(m)	>75	<b>&lt;1</b>	---	---
Tin	ppm ASTM D5185(m)	>10	<b>0</b>	---	---
Antimony	ppm ASTM D5185(m)		<b>0</b>	---	---
Vanadium	ppm ASTM D5185(m)		<b>0</b>	---	---
Beryllium	ppm ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm ASTM D5185(m)		<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)		<b>1</b>	---	---
Barium	ppm ASTM D5185(m)		<b>0</b>	---	---
Molybdenum	ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Manganese	ppm ASTM D5185(m)		<b>0</b>	---	---
Magnesium	ppm ASTM D5185(m)		<b>11</b>	---	---
Calcium	ppm ASTM D5185(m)	2980	<b>3035</b>	---	---
Phosphorus	ppm ASTM D5185(m)	1100	<b>1057</b>	---	---
Zinc	ppm ASTM D5185(m)	1270	<b>1208</b>	---	---
Sulfur	ppm ASTM D5185(m)		<b>4211</b>	---	---
Lithium	ppm ASTM D5185(m)		<b>&lt;1</b>	---	---

## CONTAMINANTS

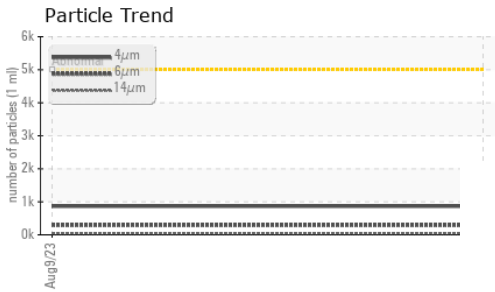
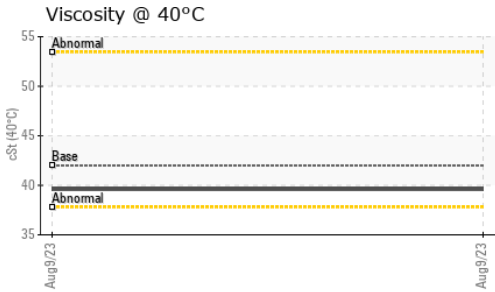
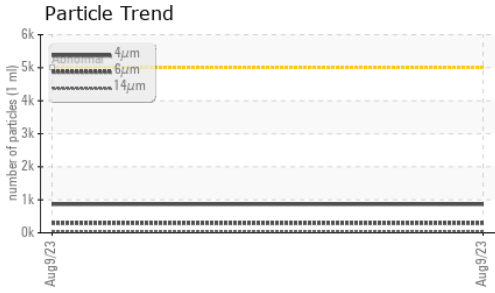
	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m)	>20	<b>5</b>	---	---
Sodium	ppm ASTM D5185(m)		<b>1</b>	---	---
Potassium	ppm ASTM D5185(m)	>20	<b>&lt;1</b>	---	---

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>865</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>292</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>45</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>19</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>1</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>17/15/13</b>	---	---



# OIL ANALYSIS REPORT



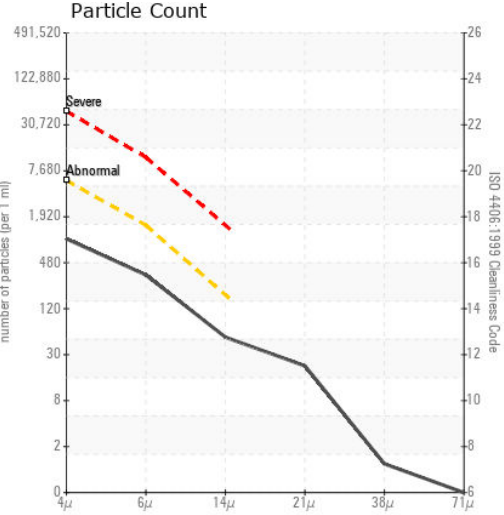
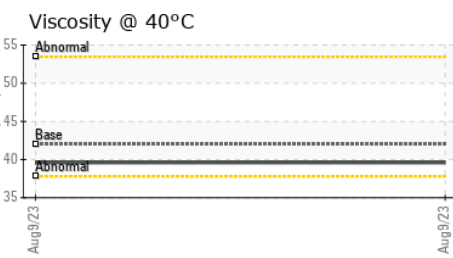
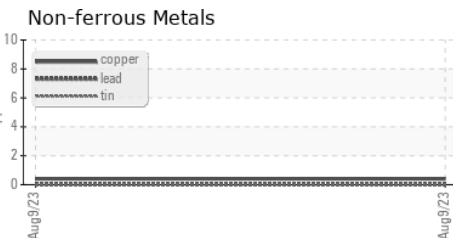
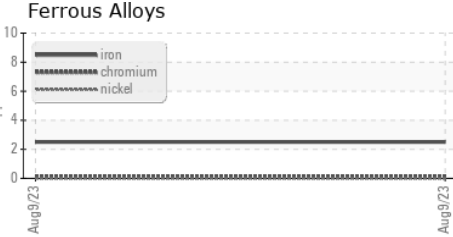
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Precipitate	scalar	Visual*	NONE	NONE	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	42.0	<b>39.6</b>	---	---

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 - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 575 - Squamish Hauling  
**Sample No.** : GFL0077023 **Received** : 14 Aug 2023 38950 Queens Way,  
**Lab Number** : 02575711 **Diagnosed** : 15 Aug 2023 Squamish, BC  
**Unique Number** : 5620762 **Diagnostician** : Wes Davis CA V8B 0K8  
**Test Package** : MOB 1 ( Additional Tests: PrtCount ) Contact: Jonas Araujo  
jaraujo@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.  
 Validity of results and interpretation are based on the sample and information as supplied.