



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



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

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>GFL0100654</b>	GFL0077023	---
Sample Date		Client Info		<b>13 May 2024</b>	09 Aug 2023	---
Machine Age	kms	Client Info		<b>6447</b>	6420	---
Oil Age	kms	Client Info		<b>2000</b>	0	---
Filter Age	kms	Client Info		<b>1000</b>	0	---
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>20	<b>5</b>	2	---
Chromium	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>10	<b>2</b>	1	---
Lead	ppm	ASTM D5185(m)	>10	<b>3</b>	0	---
Copper	ppm	ASTM D5185(m)	>75	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

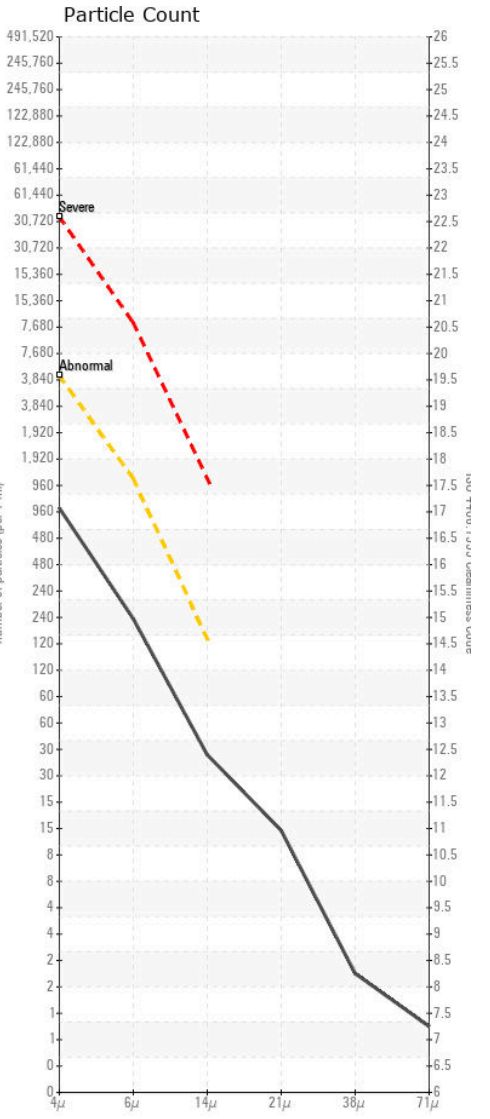
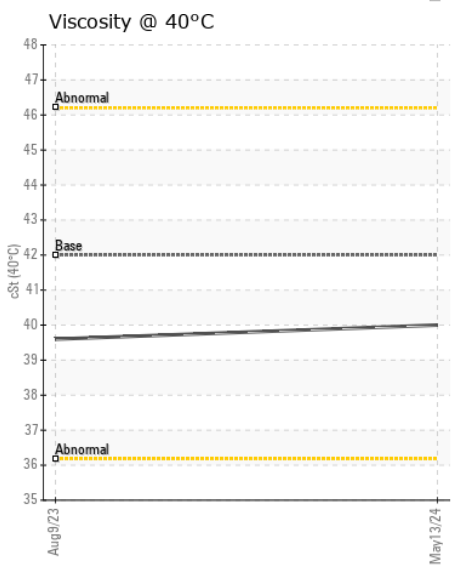
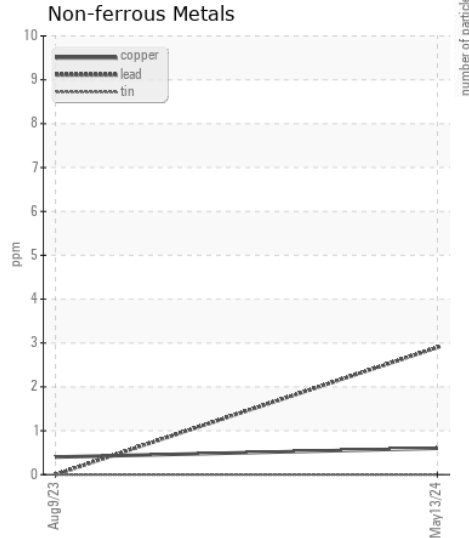
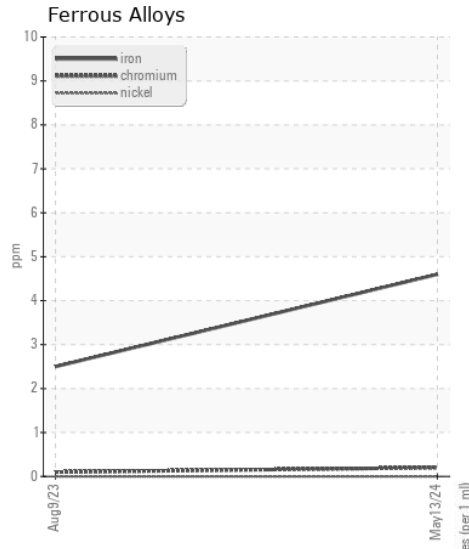
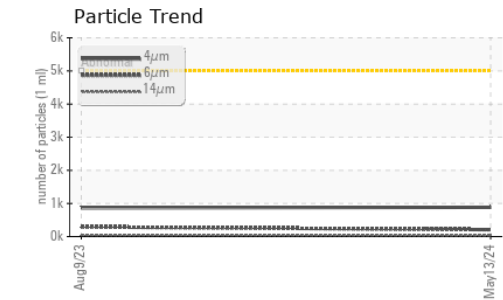
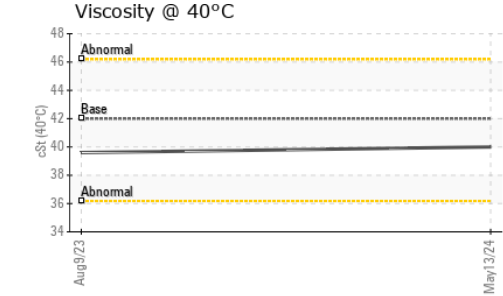
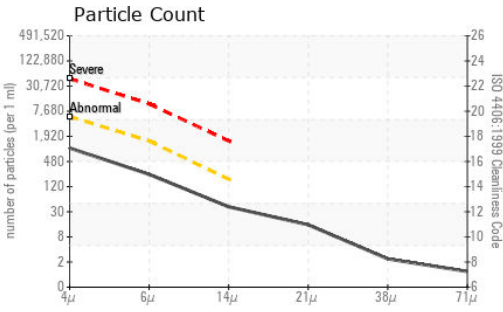
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>20	<b>4</b>	5	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>5000	<b>884</b>	865	---
Particles >6µm		ASTM D7647	>1300	<b>208</b>	292	---
Particles >14µm		ASTM D7647	>160	<b>35</b>	45	---
Particles >21µm		ASTM D7647	>40	<b>13</b>	19	---
Particles >38µm		ASTM D7647	>10	<b>2</b>	1	---
Particles >71µm		ASTM D7647	>3	<b>1</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>17/15/12</b>	17/15/13	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)		<b>1</b>	1	---
Boron	ppm	ASTM D5185(m)		<b>1</b>	1	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	---
Magnesium	ppm	ASTM D5185(m)		<b>11</b>	11	---
Calcium	ppm	ASTM D5185(m)	2980	<b>3106</b>	3035	---
Phosphorus	ppm	ASTM D5185(m)	1100	<b>1011</b>	1057	---
Zinc	ppm	ASTM D5185(m)	1270	<b>1195</b>	1208	---
Sulfur	ppm	ASTM D5185(m)		<b>4236</b>	4211	---
Visc @ 40°C	cSt	ASTM D7279(m)	42.0	<b>40.0</b>	39.6	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : GFL0100654  
**Lab Number** : 02635302  
**Unique Number** : 5776455  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )  
**Received** : 14 May 2024  
**Tested** : 15 May 2024  
**Diagnosed** : 15 May 2024 - Wes Davis

**GFL Environmental - 575 - Squamish Hauling**  
 38950 Queens Way,  
 Squamish, BC  
 CA V8B 0K8  
 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.