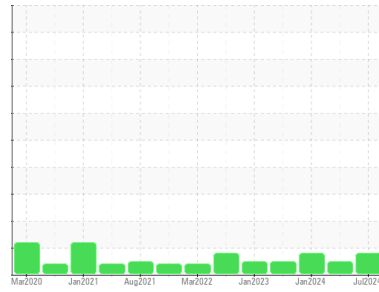




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**OR962**  
Component  
**Tank Hydraulic System**  
Fluid  
**CAT HYDO (90 LTR)**

## DIAGNOSIS

### Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a light amount of silt (particulates < 14 microns in size) present in the oil.

### 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>GFL0124568</b>	GFL0113335	GFL0092254
Sample Date	Client Info		<b>09 Jul 2024</b>	17 Apr 2024	19 Jan 2024
Machine Age	hrs	Client Info	<b>14998</b>	14420	13733
Oil Age	hrs	Client Info	<b>578</b>	12415	1348
Oil Changed	Client Info		<b>Changed</b>	Changed	N/A
Sample Status			<b>ATTENTION</b>	NORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >20	<b>5</b>	8	8
Chromium	ppm	ASTM D5185(m) >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >10	<b>1</b>	1	1
Lead	ppm	ASTM D5185(m) >10	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m) >75	<b>&lt;1</b>	1	1
Tin	ppm	ASTM D5185(m) >10	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
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)	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185(m)	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	<b>9</b>	18	16
Calcium	ppm	ASTM D5185(m)	<b>193</b>	221	174
Phosphorus	ppm	ASTM D5185(m) 1100	<b>650</b>	570	569
Zinc	ppm	ASTM D5185(m) 1210	<b>824</b>	725	714
Sulfur	ppm	ASTM D5185(m)	<b>1439</b>	1329	1421
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

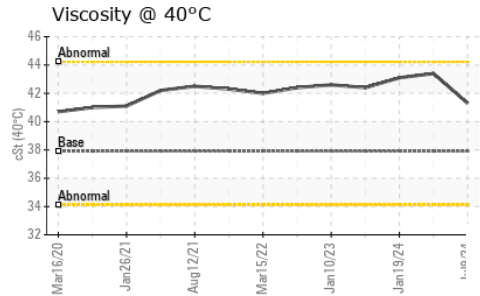
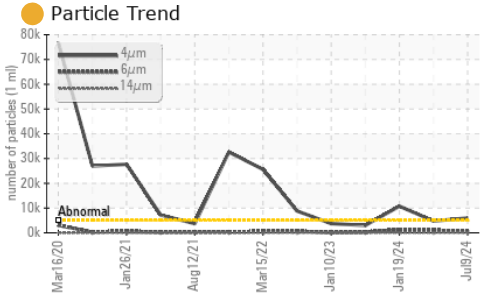
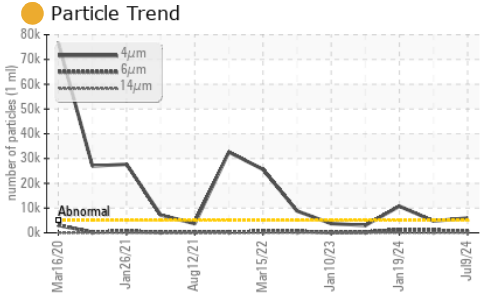
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >20	<b>0</b>	0	<1
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	1	<1
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	2

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>5992</b>	4750	▲ 10760
Particles >6µm	ASTM D7647	>1300	<b>496</b>	1093	1294
Particles >14µm	ASTM D7647	>160	<b>38</b>	82	91
Particles >21µm	ASTM D7647	>40	<b>13</b>	19	23
Particles >38µm	ASTM D7647	>10	<b>2</b>	1	2
Particles >71µm	ASTM D7647	>3	<b>1</b>	0	1
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>20/16/12</b>	19/17/14	▲ 21/17/14



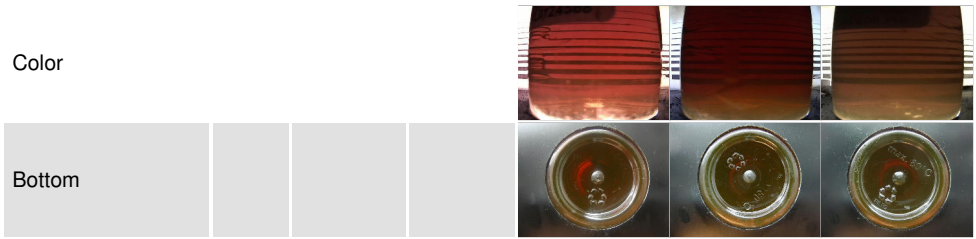
# OIL ANALYSIS REPORT



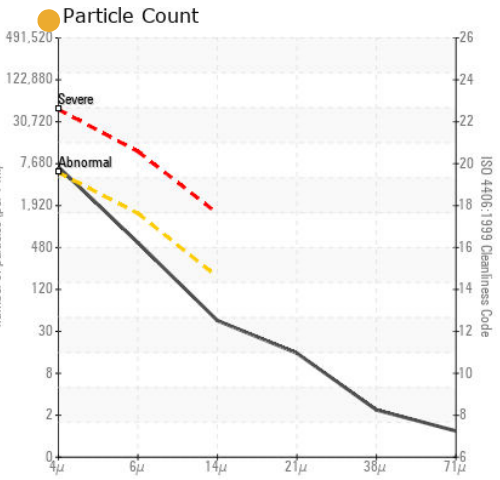
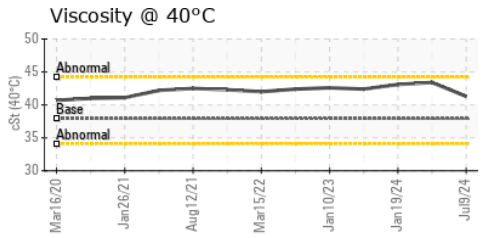
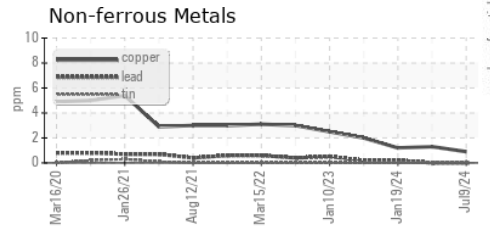
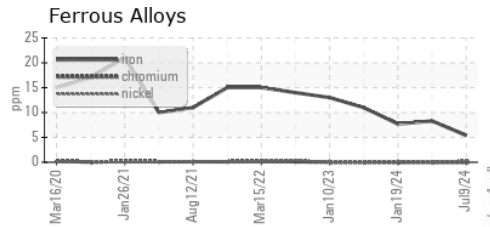
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	37.9	41.3	43.4

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 - 720 - Lafleche - Landfill**  
**Sample No.** : GFL0124568 **Received** : 11 Jul 2024 **17125 Lafleche Road,**  
**Lab Number** : 02647354 **Tested** : 12 Jul 2024 **Moose Creek, ON**  
**Unique Number** : 5812906 **Diagnosed** : 12 Jul 2024 - Wes Davis **CA K0C 1W0**  
**Test Package** : MOB 1 ( Additional Tests: PrtCount ) **Contact: Charles Bergeron**  
**To discuss this sample report, contact Customer Service at 1-800-268-2131.** **cbergeron@gflenv.com**  
**Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.** **T: (613)538-4853**  
**Validity of results and interpretation are based on the sample and information as supplied.** **F:**