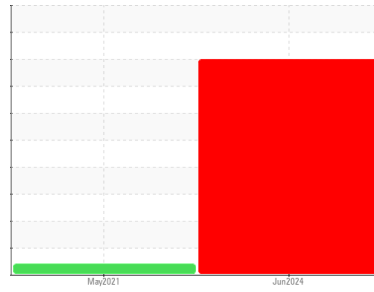




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
SHOP
 Component
Pump Hydraulic System
 Fluid
KLONDIKE AW 46 (--- LTR)

DIAGNOSIS

▲ Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

Fluid Condition

The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0095880	GFL0022813	---
Sample Date	Client Info		28 Jun 2024	07 May 2021	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			SEVERE	ATTENTION	---

CONTAMINATION

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

WEAR METALS

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

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	42	2	---
Barium	ppm	ASTM D5185(m)	0	0	---
Molybdenum	ppm	ASTM D5185(m)	28	<1	---
Manganese	ppm	ASTM D5185(m)	<1	0	---
Magnesium	ppm	ASTM D5185(m)	225	0	---
Calcium	ppm	ASTM D5185(m)	465	62	---
Phosphorus	ppm	ASTM D5185(m)	334	355	---
Zinc	ppm	ASTM D5185(m)	324	452	---
Sulfur	ppm	ASTM D5185(m)	1733	799	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

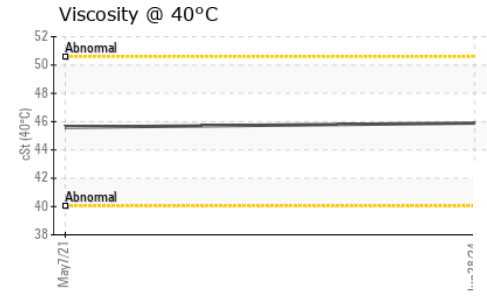
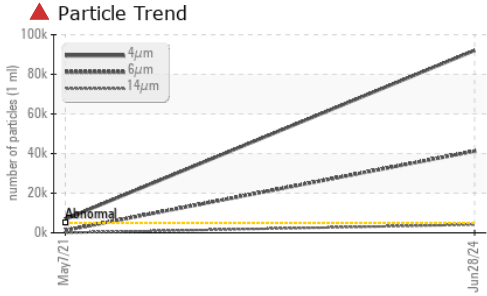
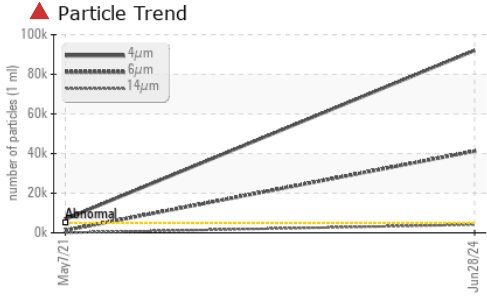
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >20	10	1	---
Sodium	ppm	ASTM D5185(m)	1	0	---
Potassium	ppm	ASTM D5185(m) >20	<1	0	---

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 92088	● 6863	---
Particles >6µm	ASTM D7647	>1300	▲ 41234	1242	---
Particles >14µm	ASTM D7647	>160	▲ 4111	47	---
Particles >21µm	ASTM D7647	>40	▲ 956	12	---
Particles >38µm	ASTM D7647	>10	▲ 47	1	---
Particles >71µm	ASTM D7647	>3	3	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 24/23/19	● 20/17/13	---



OIL ANALYSIS REPORT



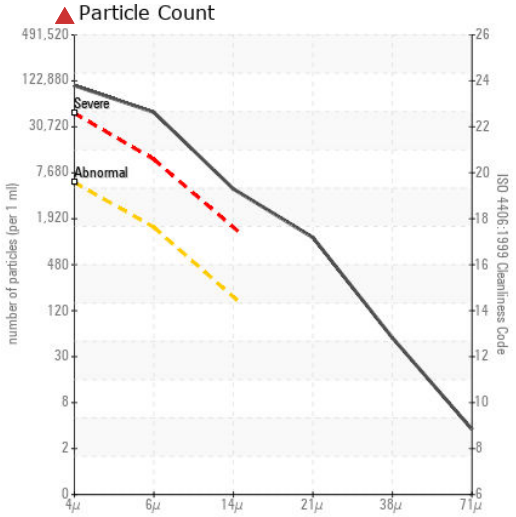
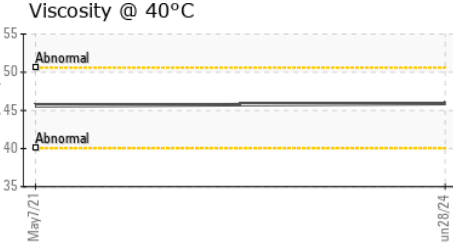
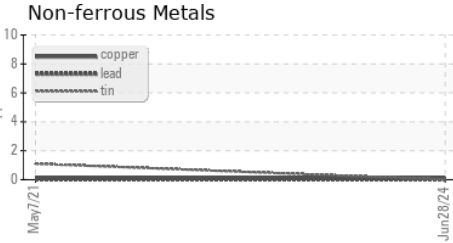
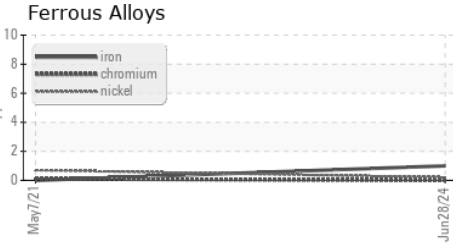
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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)	45.9	45.6	---

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 - 654 - Richmond Hauling**
Sample No. : GFL0095880 **Received** : 11 Jul 2024 **11800 Lewis Road**
Lab Number : 02647362 **Tested** : 12 Jul 2024 **Chester, VA**
Unique Number : 5812914 **Diagnosed** : 12 Jul 2024 - Kevin Marson **US 23831**
Test Package : MOB 1 (Additional Tests: Bottom, PrtCount) **Contact: Jimmy Mayes**
To discuss this sample report, contact Customer Service at 1-800-268-2131. **jmayes@gflenv.com**

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.