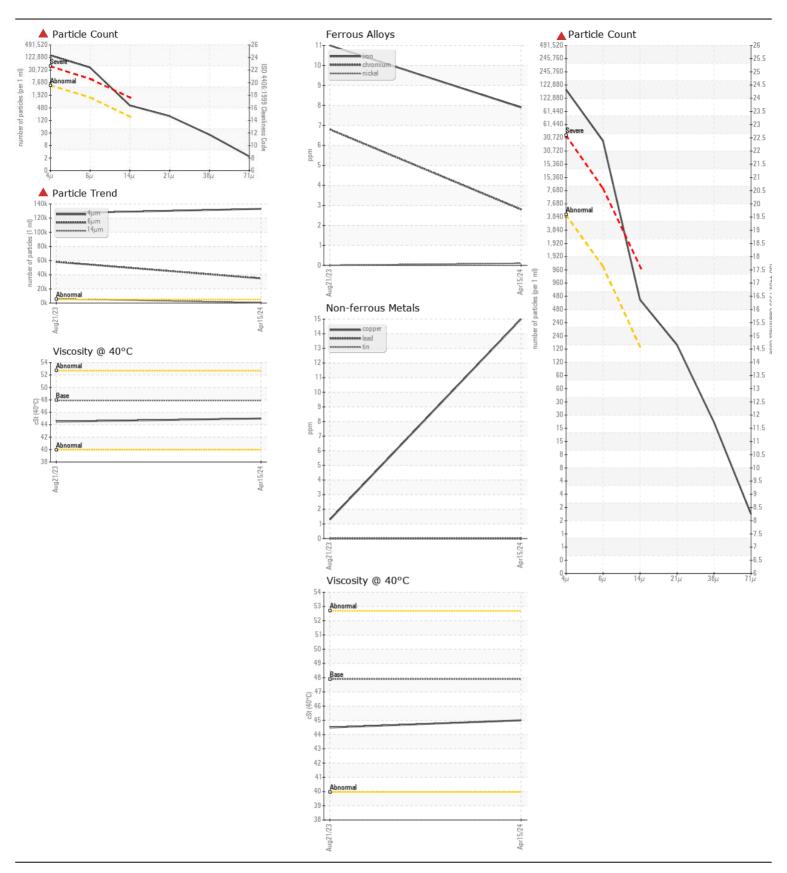
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL SEVERE NORMAL

Machine Id **OR343**

Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. 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.	Sample Number		Client Info		GFL0113341		
	Sample Date		Client Info		15 Apr 2024	21 Aug 2023	
	Machine Age	hrs	Client Info		16058	15462	
	Oil Age	hrs	Client Info		16058	500	
	Filter Age	hrs	Client Info		16058	500	
	Oil Changed		Client Info		Changed	Not Changd	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				SEVERE	SEVERE	
WEAR	Iron	ppm	ASTM D5185(m)	>20	8	11	
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>10	3	7	
	Nickel	ppm	ASTM D5185(m)	>10	<1	0	
	Titanium	ppm	ASTM D5185(m)		0	<1	
	Silver	ppm	ASTM D5185(m)		0	0	
	Aluminum	ppm	ASTM D5185(m)	>10	<1	2	
	Lead	ppm	ASTM D5185(m)	>10	0	0	
	Copper	ppm	ASTM D5185(m)	>75	15	1	
	Tin	ppm	ASTM D5185(m)	>10	0	0	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>20	<1	4	
SCHTAIMINATION	Potassium	ppm	ASTM D5185(m)		0	1	
There is a high amount of particulates (2 to 100 microns in size) present in the oil.	Water	PP	WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647		▲ 133065	▲ 126854	
	Particles >6µm		ASTM D7647		▲ 34783	▲ 58064	
	Particles >14µm		ASTM D7647		<u> </u>	▲ 5899	
	Particles >21µm		ASTM D7647		167	1 326	
	Particles >38µm		ASTM D7647	>10	<u>^</u> 22	<u>^</u> 29	
	Particles >71µm		ASTM D7647	>3	2	3	
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	24/22/16	4 24/23/20	
	Silt	scalar	Visual*	NONE	NONE	VLITE	
	Debris	scalar	Visual*	NONE	NONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE	
	Appearance	scalar	Visual*	NORML	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		<1	3	
The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	Boron	ppm	ASTM D5185(m)	0	<1	<1	
	Barium	ppm	ASTM D5185(m)	0	0	0	
	Molybdenum	ppm	ASTM D5185(m)	0	0	0	
	Manganese	ppm	ASTM D5185(m)	1	<1	0	
	Magnesium	ppm	ASTM D5185(m)	0	5	3	
	Calcium	ppm	ASTM D5185(m)	100	108	112	
	Phosphorus	ppm	ASTM D5185(m)	670	601	664	
	Zinc	ppm	ASTM D5185(m)	850	786	791	
	Sulfur	ppm	ASTM D5185(m)	1600	1400	1450	
	Visc @ 40°C	cSt	ASTM D7279(m)	47.9	45.0	44.5	





CALA ISO 17025:2017 Accredited Laboratory

Report Id: GFL720 [WCAMIS] 02630971 (Generated: 04/23/2024 17:31:55) Rev: 1

Laboratory Sample No.

: GFL0113341 Lab Number : 02630971

Unique Number : 5772124

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Received **Tested** Diagnosed Test Package : MOB 1 (Additional Tests: PrtCount)

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.

: 23 Apr 2024 : 23 Apr 2024 - Wes Davis

: 23 Apr 2024

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 720 - Lafleche - Landfill 17125 Lafleche Road, Moose Creek, ON CA K0C 1W0 Contact: Charles Bergeron cbergeron@gflenv.com T: (613)538-4853

F: