WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL ABNORMAL

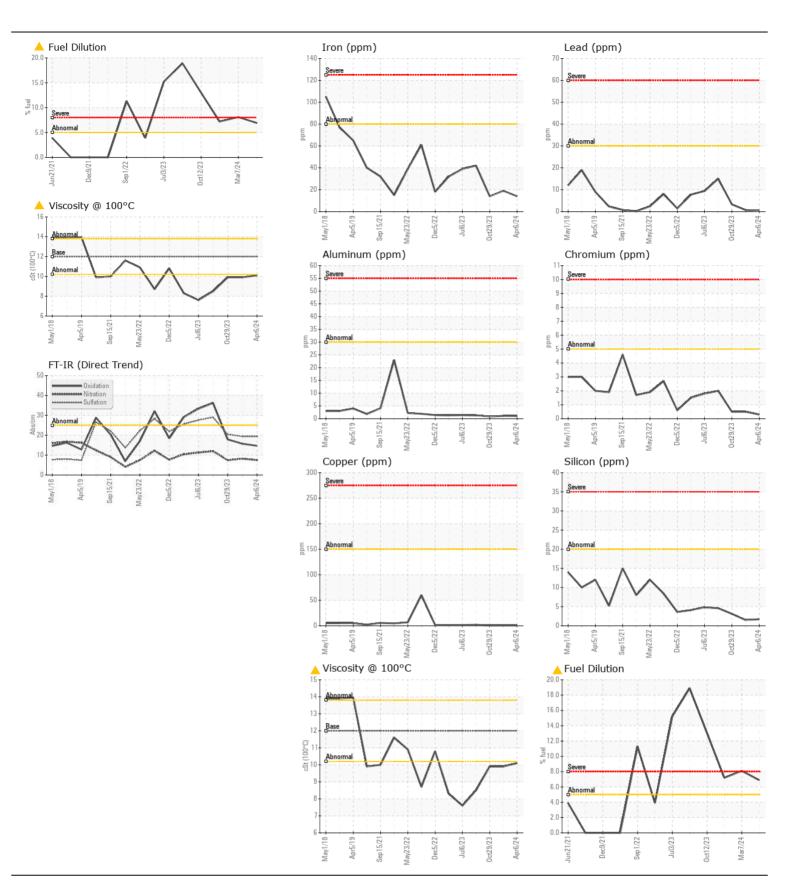


Machine Id
8138
Component
Diesel Engine
Fluid

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		GFL0112570	GFL0102617	GFL009387
	Sample Date		Client Info		06 Apr 2024	07 Mar 2024	29 Oct 20
	Machine Age	hrs	Client Info		17607	17462	16955
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		N/A	Changed	N/A
	Sample Status				ABNORMAL	SEVERE	ABNORN
VEAR	Iron	ppm	ASTM D5185(m)	>80	14	19	14
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
	Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	0	<1
	Aluminum	ppm	ASTM D5185(m)	>30	1	1	<1
	Lead	ppm	ASTM D5185(m)	>30	<1	<1	3
	Copper	ppm	ASTM D5185(m)	>150	<1	<1	<1
	Tin	ppm	ASTM D5185(m)	>5	0	0	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>20	2	2	3
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
	Fuel	%	ASTM D7593*	>5	▲ 6.9	▲ 8.1	<u> </u>
	Water	,0	WC Method		NEG	NEG	NEG
	Glycol		WC Method	, 0.2	NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.5	0.5	0.4
	Nitration	Abs/cm	ASTM D7624*	>20	7.5	8.2	7.4
	Sulfation	Abs/.1mm	ASTM D7415*	>30	19.4	19.4	20.4
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	nnm	ASTM D5185(m)		4	5	4
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185(m)	2	4	8	7
	Barium	ppm	ASTM D5185(m)		0	0	<1
	Molybdenum	ppm	ASTM D5185(m)		51	53	53
	Manganese	ppm	ASTM D5185(m)		0	0	0
	Magnesium	ppm	ASTM D5185(m)		840	845	833
	Calcium	ppm	ASTM D5185(m)	1050	919	942	931
	Phosphorus	ppm	ASTM D5185(m)	995	857	854	888
	Zinc	ppm	ASTM D5185(m)	1180	1019	1023	1034
	Sulfur	ppm	ASTM D5185(m)	2600	2214	2189	2273
	Juliui						
	Oxidation		ASTM D7414*		14.7	15.7	17.9

9.9

Visc @ 100°C cSt ASTM D7279(m) 12.00 △ 10.1





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

: GFL0112570 : 02629873

Unique Number : 5763005

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

: 19 Apr 2024 : 19 Apr 2024 - Wes Davis

: 18 Apr 2024

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.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW

8409 -15th Street NW Edmonton, AB CA T6P 0B8 Contact: Tim Greig tgreig@gflenv.com T: (780)231-0521