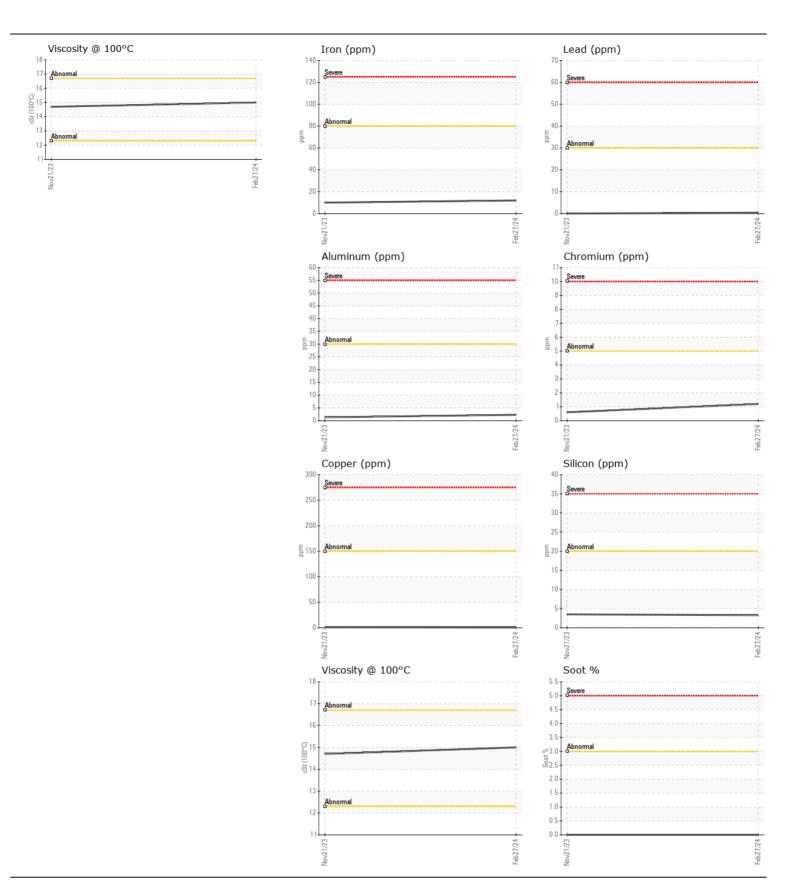
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



Area
GFL218
Machine Id
231004
Component
Diesel Engine
Fluid
NOT GIVEN (--- GA)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0113164	GFL0103086	
	Sample Date		Client Info		27 Feb 2024	21 Nov 2023	
	Machine Age	kms	Client Info		23572	16798	
	Oil Age	kms	Client Info		0	0	
	Filter Age	kms	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	nnm	ASTM D5185(m)	. 00	12	10	
	Chromium	ppm	ASTM D5185(III) ASTM D5185(m)				
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185(m)		1	<1 <1	
	Titanium	ppm	ASTM D5185(m)	>4	<1 0	0	
	Silver	ppm	ASTM D5185(m)	^3	0	<1	
	Aluminum	ppm	ASTM D5185(m)		2	1	
	Lead	ppm	ASTM D5185(m)		<1	0	
	Copper	ppm	ASTM D5185(m)		<1	1	
	Tin	ppm	ASTM D5185(m)		<1	0	
	Vanadium	ppm	ASTM D5185(m)		0	0	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>20	3	4	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)		2	<1	
	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	ASTM D7844*		0	0	
	Nitration	Abs/cm	ASTM D7624*	>20	8.8	8.4	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	19.9	20.1	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		5	6	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		20	27	
	Barium	ppm	ASTM D5185(m)		0	<1	
	Molybdenum	ppm	ASTM D5185(m)		57	52	
	Manganese	ppm	ASTM D5185(m)		<1	<1	
	Magnesium	ppm	ASTM D5185(m)		713	561	
	Calcium	ppm	ASTM D5185(m)		1608	1612	
	Phosphorus	ppm	ASTM D5185(m)		867	760	
	Zinc	ppm	ASTM D5185(m)		1041	912	
	Sulfur Oxidation	ppm Abs/.1mm	ASTM D5185(m) ASTM D7414*		2306 16.3	1974 16.8	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : GFL0113164 Lab Number : 02618848 Unique Number : 5735958

Received **Tested** Diagnosed

: 29 Feb 2024 : 01 Mar 2024

: 01 Mar 2024 - Wes Davis

GFL Environmental - 225 - COT(D2) 20 Brydon Drive Etobicoke, ON CA M9W 5R6 Contact: Rick Philip rphilip@gflenv.com T: (416)745-8080

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.

Report Id: GFL225 [WCAMIS] 02618848 (Generated: 03/01/2024 11:33:29) Rev: 1