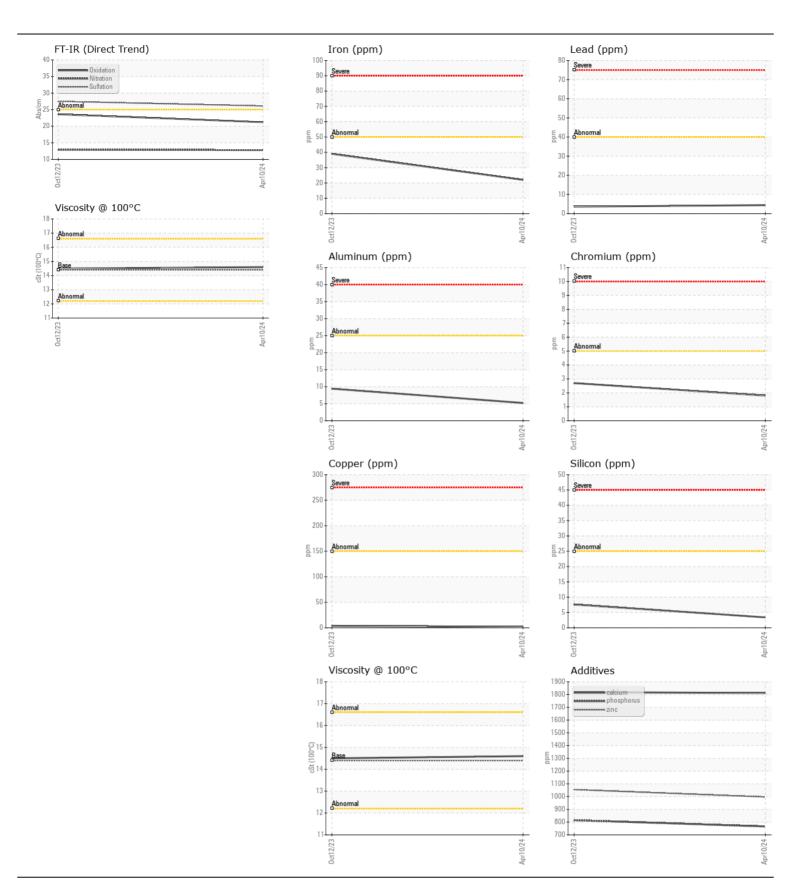


Machine Id 931010 Component Natural Gas Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIESEL ENGINE OIL SAE 131	//40 (GAL)				.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0112688	GFL0094841	
	Sample Date		Client Info		10 Apr 2024	12 Oct 2023	
	Machine Age	kms	Client Info		33568	3797	
	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	
WEAR	Iron	ppm	ASTM D5185(m)	>50	22	39	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185(m)	>5	2	3	
	Nickel	ppm	ASTM D5185(m)	>4	1	2	
	Titanium	ppm	ASTM D5185(m)	>5	<1	<1	
	Silver	ppm	ASTM D5185(m)	>3	0	<1	
	Aluminum	ppm	ASTM D5185(m)	>25	5	9	
	Lead	ppm	ASTM D5185(m)	>40	4	4	
	Copper	ppm	ASTM D5185(m)	>150	2	4	
	Tin	ppm	ASTM D5185(m)	>4	<1	1	
	Vanadium	ppm	ASTM D5185(m)		0	0	
CONTAMINATION	Ciliaan		ACTM DE10E/m)	. 05	• • • • • • • • • • • • • • • • • • • •	0	
	Silicon	ppm	ASTM D5185(m)		3	8	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)		10 NEO	23	
	Water	0/	WC Method	>0.1	NEG	NEG	
	Soot %	%	ASTM D7844* ASTM D7624*	. 00	0	0	
	Nitration Sulfation	Abs/.1mm	ASTM D7624 ASTM D7415*	>20	12.8 26.1	12.9 27.5	
	Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	
			v 13uai				
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)	>158	8	10	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	250	10	8	
	Barium	ppm	ASTM D5185(m)	10	<1	<1	
	Molybdenum	ppm	ASTM D5185(m)	100	59	64	
	Manganese	ppm	ASTM D5185(m)		<1	2	
	Magnesium	ppm	ASTM D5185(m)	450	622	680	
	Calcium	ppm	ASTM D5185(m)	3000	1812	1819	
	Phosphorus	ppm	ASTM D5185(m)	1150	766	815	
	Zinc	ppm	ASTM D5185(m)	1350	997	1055	
	Sulfur	ppm	ASTM D5185(m)	4250	1988	2059	
	Oxidation	Abs/.1mm	ASTM D7414*		21.2	23.6	
	Visc @ 100°C	cSt	ASTM D7279(m)	14.4	14.6	14.5	
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CALA ISO 17025:2017 Accredited

Laboratory Sample No.

Lab Number : 02630061 Unique Number : 5763193

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : GFL0112688

Validity of results and interpretation are based on the sample and information as supplied.

Received **Tested** Test Package : MOB 1

: 19 Apr 2024 Diagnosed : 19 Apr 2024 - Kevin Marson

: 19 Apr 2024

15 Bermondsey Road - Building B Toronto, ON

CA M4B 1Y9 Contact: Natalia Stalynska nstalynska@gflenv.com T:

GFL Environmental - 253 - TOR APT

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.

F: