WEAR
CONTAMINATION
FLUID CONDITION

NORMAL

MARGINAL

NORMAL



Machine Id
7982
Component
Diesel Engine

	15W40 (19 L	/					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. No other corrective action is recommended at this time.	Sample Number		Client Info		GFL0107158	WC0875083	GFL008648
	Sample Date		Client Info		27 Dec 2023	10 Nov 2023	18 Jul 202
	Machine Age	hrs	Client Info		11596	11088	0
	Oil Age	hrs	Client Info		600	568	0
	Filter Age	hrs	Client Info		0	568	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				MARGINAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185(m)	>80	16	33	30
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>5	<1	<1	1
	Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
	Aluminum	ppm	ASTM D5185(m)	>30	4	3	3
	Lead	ppm	ASTM D5185(m)	>30	<1	<1	<1
	Copper	ppm	ASTM D5185(m)	>150	<1	1	1
	Tin	ppm	ASTM D5185(m)	>5	0	<1	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>20	5	8	9
Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185(m)	>20	0	1	2
	Fuel	%	ASTM D7593*	>5	4.7	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.4	0.8	0.7
	Nitration	Abs/cm	ASTM D7624*	>20	9.1	11.3	11.7
	Sulfation	Abs/.1mm	ASTM D7415*	>30	23.5	24.1	24.3
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185(m)		6	9	9
Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	0	210	5	5
	Barium	ppm	ASTM D5185(m)	0	0	<1	0
	Molybdenum	ppm	ASTM D5185(m)	60	77	64	61
	Manganese	ppm	ASTM D5185(m)	0	0	0	<1
	Magnesium	ppm	ASTM D5185(m)	1010	466	988	969
	Calcium	ppm	ASTM D5185(m)	1070	1254	1076	1059
	Phosphorus	ppm	ASTM D5185(m)	1150	966	1003	1031
	Zinc	ppm	ASTM D5185(m)	1270	1146	1229	1176

Sulfur

Oxidation

Visc @ 100°C cSt

ppm

Abs/.1mm

ASTM D5185(m) 2060

ASTM D7414* >25

ASTM D7279(m) 15.4

2597

19.4

12.7

2354

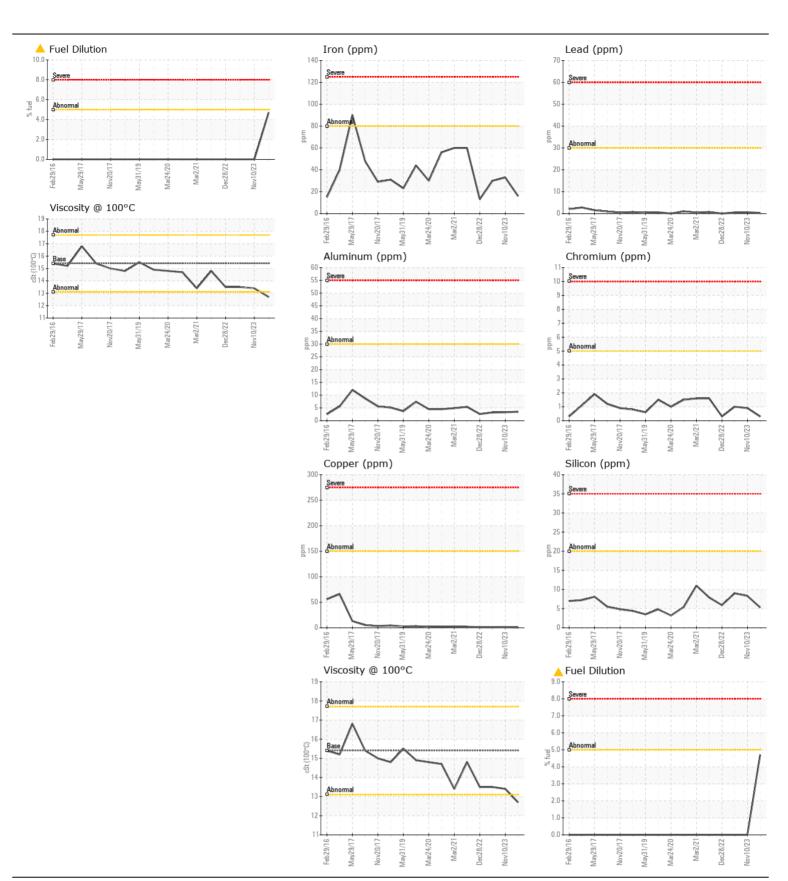
21.5

13.4

2380

21.9

13.5





CALA ISO 17025:2017 Accredited

Laboratory Sample No. Lab Number **Unique Number**

: GFL0107158 : 02606482

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Recieved : 04 Jan 2024 Diagnosed : 5707568

: 05 Jan 2024 Diagnostician : Wes Davis **Test Package**: MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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.

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