WEAR CONTAMINATION FLUID CONDITION

NORMAL ABNORMAL ABNORMAL



GFL216
Machine Id
401224
Component

Diesel Engine

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		GFL0121959	GFL0113893	GFL009967
	Sample Date		Client Info		30 May 2024	31 Mar 2024	21 Dec 202
	Machine Age	kms	Client Info		794896	784325	770686
	Oil Age	kms	Client Info		0	0	0
	Filter Age	kms	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	SEVERE	ABNORMA
WEAR	Iron	nnm	ASTM D5185(m)	. 120	10	14	11
All component wear rates are normal.	Chromium	ppm	ASTM D5185(III) ASTM D5185(m)		0		<1
	Nickel	ppm	ASTM D5185(III) ASTM D5185(m)	>5	0	<1 0	<1
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)		0	0	0
	Aluminum	ppm	ASTM D5185(m)		<1	2	2
	Lead	ppm	ASTM D5185(m)	>40	<1	2	1
	Copper	ppm	ASTM D5185(m)		1	8	<1
	Tin	ppm	ASTM D5185(m)		0	0	0
	Vanadium	ppm	ASTM D5185(m)	710	0	0	0
		-  -  -  -  -  -  -  -  -  -  -  -  -					
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	<1	<1	1
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*	>3.0	<b>4.5</b>	▲ 5.2	<u>4.4</u>
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>4	0.9	1.1	1.2
	Nitration	Abs/cm	ASTM D7624*	>20	6.9	7.8	6.8
	Sulfation	Abs/.1mm	ASTM D7415*	>30	19.9	20.4	19.9
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		1	1	1
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)	0	4	4	2
	Barium	ppm	ASTM D5185(m)	0	0	0	0
	Molybdenum	ppm	ASTM D5185(m)	60	57	57	57
	Manganese	ppm	ASTM D5185(m)	0	0	0	0
	Magnesium	ppm	ASTM D5185(m)	1010	917	935	907
	Calcium	ppm	ASTM D5185(m)	1070	996	1010	1018
	Phosphorus	ppm	ASTM D5185(m)	1150	973	947	956
	Zinc	ppm	ASTM D5185(m)	1270	1121	1137	1110
	C If	nnm	ASTM D5185(m)	2060	2423	2403	2576
	Sulfur	ppm	70 1101 D3 103(III)	2000	2720	2700	20,0

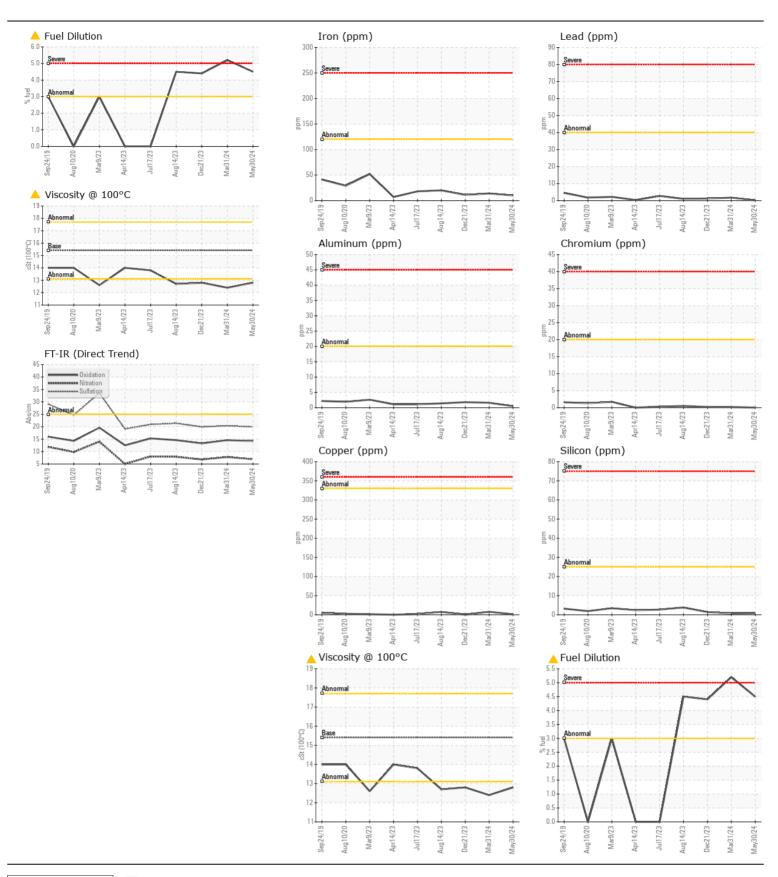
Visc @ 100°C cSt

ASTM D7279(m) 15.4

12.4

12.8

**12.8** 





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: GFL0121959

Lab Number : 02639763 Unique Number : 5788925 Test Package: MOB 1 (Additional Tests: PercentFuel)

Received **Tested** Diagnosed

: 05 Jun 2024 : 06 Jun 2024

: 06 Jun 2024 - Wes Davis

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 252 - GTA Hauling 3668 Weston Road North York, ON CA M9L 1W2 Contact: Amanda Cipollone

acipollone@gflenv.com

T: F:

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.