WEAR CONTAMINATION FLUID CONDITION

NORMAL MARGINAL NORMAL

Machine Id 701039
Component
Diosol F

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.	Sample Number		Client Info		GFL0116846	GFL0110736	GFL009745
	Sample Date		Client Info		13 May 2024	09 Feb 2024	13 Nov 202
	Machine Age	hrs	Client Info		416	416	416
	Oil Age	hrs	Client Info		416	416	416
	Filter Age	hrs	Client Info		416	416	416
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				MARGINAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185(m)	>100	13	13	12
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	0	<1
	Aluminum	ppm	ASTM D5185(m)	>20	4	6	1
	Lead	ppm	ASTM D5185(m)	>40	0	0	0
	Copper	ppm	ASTM D5185(m)	>330	<1	<1	1
	Tin	ppm	ASTM D5185(m)	>15	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	2	4	5
Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Light fuel dilution occurring. No other contaminants were detected in the oil.	Potassium	ppm	ASTM D5185(m)	>20	9	11	<1
	Fuel	%	ASTM D7593*	>5	4.3	△ 5.6	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.2	0.3	0.3
	Nitration	Abs/cm	ASTM D7624*	>20	10.6	10.9	9.9
	Sulfation	Abs/.1mm	ASTM D7415*	>30	21.1	20.8	21.2
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		2	1	2
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	0	1	2	2
	Barium	ppm	ASTM D5185(m)	0	0	0	<1
	Molybdenum	ppm	ASTM D5185(m)		54	54	57
	Manganese	ppm	ASTM D5185(m)	0	0	0	0
	Magnesium	ppm	ASTM D5185(m)		854	861	928
	Calcium	ppm	ASTM D5185(m)		933	962	1020
	Phosphorus	ppm	ASTM D5185(m)		889	896	953
	Zinc	ppm	ASTM D5185(m)		1063	1073	1174
	Sulfur	ppm	ASTM D5185(m)		2252	2371	2350
	Ovidation	Abc/1mm	ACTM D7/11/1*		107	10.2	177

Oxidation

Visc @ 100°C cSt

ASTM D7279(m) 15.4

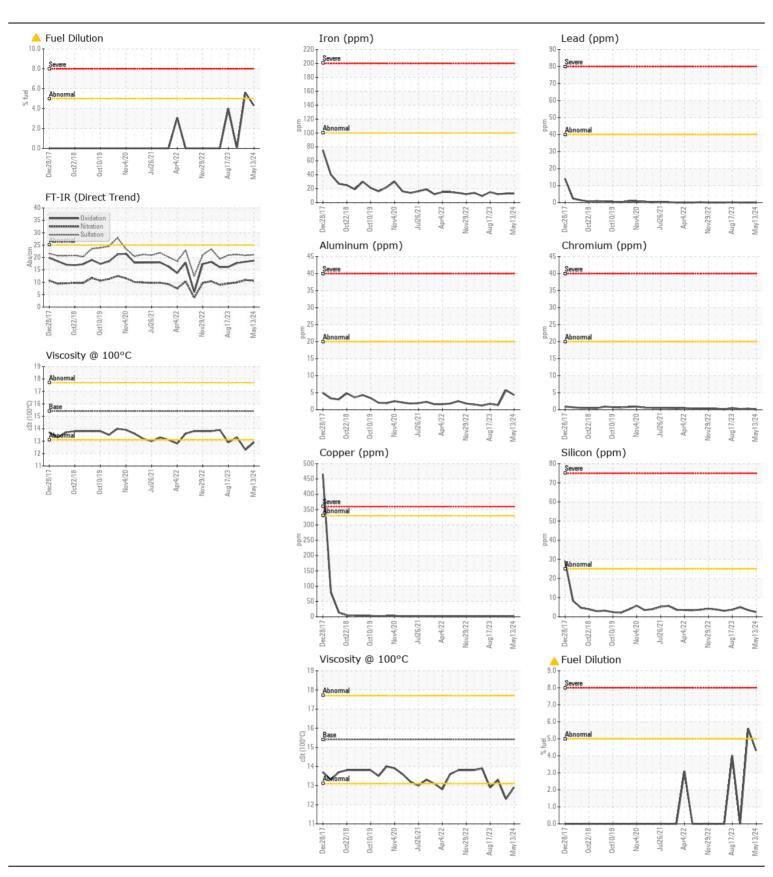
18.3

18.7

12.9

17.7

13.3





CALA ISO 17025:2017 Accredited Laboratory

Sample No. Lab Number

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

: GFL0116846 : 02635507 Unique Number : 5776660

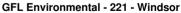
Received **Tested** Test Package: MOB 1 (Additional Tests: PercentFuel)

: 16 May 2024 : 16 May 2024 - Wes Davis Diagnosed

: 15 May 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.



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