**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

[1276105] 101074 Component

**Diesel Engine** 

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0107931	GFL0107911	
	Sample Date		Client Info		13 May 2024	09 Jan 2024	
	Machine Age	hrs	Client Info		14041	13490	
	Oil Age	hrs	Client Info		400	0	
	Filter Age	hrs	Client Info		400	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185(m)	>120	10	4	
	Chromium	ppm	ASTM D5185(m)		<1	0	
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)		<1	0	
	Titanium	ppm	ASTM D5185(m)		0	0	
	Silver	ppm	ASTM D5185(m)		0	0	
	Aluminum	ppm	ASTM D5185(m)		3	2	
	Lead	ppm	ASTM D5185(m)		0	0	
	Copper	ppm	ASTM D5185(m)		2	<1	
	Tin	ppm	ASTM D5185(m)		0	0	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
ONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	2	6	
ONTAMINATION	Potassium	ppm	ASTM D5185(m)		3	2	
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	70.L	NEG	NEG	
	Soot %	%	ASTM D7844*	>4	0.3	0	
	Nitration	Abs/cm	ASTM D7624*	>20	9.2	7.1	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	20.5	18.3	
	Silt	scalar	Visual*	NONE	VLITE		
	Debris	scalar	Visual*	NONE	NONE		
	Sand/Dirt	scalar	Visual*	NONE	NONE		
	Appearance	scalar	Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML	NORML	
	<b>Emulsified Water</b>	scalar	Visual*	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		4	2	
	Boron	ppm	ASTM D5185(m)	2	2	81	
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185(m)		0	0	
	Molybdenum	ppm	ASTM D5185(m)		60	6	
	Manganese	ppm	ASTM D5185(m)		<1	0	
	Magnesium	ppm	ASTM D5185(m)		972	727	
	Calcium	ppm	ASTM D5185(m)	1050	1058	1310	
	Phosphorus	ppm	ASTM D5185(m)		964	745	
	Zinc	ppm	ASTM D5185(m)		1189	806	
	Sulfur	ppm	ASTM D5185(m)		2340	2704	
	Oxidation	Abs/.1mm	ASTM D7414*		17.3	12.9	
	Visc @ 100°C	cSt	ASTM D7279(m)		11.2	10.5	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : GFL0107931 Lab Number : 02637041

Unique Number : 5786203

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.

To discuss this sample report, contact Customer Service at 1-800-268-2131.

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

: 23 May 2024

: 23 May 2024 : 23 May 2024 - Wes Davis

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