WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

NO UNIT GFL0113273

Component Diesel Engine

					(-)		1.17
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		GFL0113273		
	Sample Date		Client Info		20 Feb 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185(m)	>100	20		
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>20	<1		
	Nickel	ppm	ASTM D5185(m)	>4	<1		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)	>3	0		
	Aluminum	ppm	ASTM D5185(m)	>20	4		
	Lead	ppm	ASTM D5185(m)	>40	<1		
	Copper	ppm	ASTM D5185(m)	>330	1		
	Tin	ppm	ASTM D5185(m)	>15	0		
	Vanadium	ppm	ASTM D5185(m)		0		
CONTAMINATION	0		40714.054.054		_		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)		5		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)		<1		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol	0/	WC Method	0	NEG		
	Soot %	%	ASTM D7844*		0		
	Nitration	Abs/cm	ASTM D7624*	>20	8.2		
	Sulfation Emulsified Water	Abs/.1mm scalar	ASTM D7415* Visual*	>30	18.1 NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)	>216	2		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		6		
	Barium	ppm	ASTM D5185(m)	10	0		
	Molybdenum	ppm	ASTM D5185(m)	100	58		
	Manganese	ppm	ASTM D5185(m)		0		
	Magnesium	ppm	ASTM D5185(m)	450	936		
	Calcium	ppm	ASTM D5185(m)	3000	1053		
	Phosphorus	ppm	ASTM D5185(m)	1150	1022		
	Zinc	ppm	ASTM D5185(m)	1350	1149		
	Sulfur	ppm	ASTM D5185(m)	4250	2703		
	Oxidation	Abs/.1mm	ASTM D7414*		14.9		
	Visc @ 100°C	cSt	ASTM D7279(m)	14.4	13.5		





ISO 17025:2017 Accredited Laboratory Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

 Sample No.
 : GFL0113273
 Received
 : 21 Feb 2024

 Lab Number
 : 02616962
 Tested
 : 27 Feb 2024

 Unique Number
 : 5734072
 Diagnosed
 : 27 Feb 2024 - Wes Davis

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

Test Package : MOB 1

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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