WEAR CONTAMINATION **FLUID CONDITION**

NORMAL MARGINAL ABNORMAL

Machine Id

357010 Component Diesel Engine

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.	Carralla Nivershau		Client Info		GFL0097983		
	Sample Date		Client Info		30 Apr 2024		
	Machine Age	kms	Client Info		301458		
	Oil Age	kms	Client Info		13944		
	Filter Age	kms	Client Info		13944		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
VEAR	Iron	nnm	ASTM D5185(m)	. 100	54		
All component wear rates are normal.	Chromium	ppm	ASTM D5185(III) ASTM D5185(m)		1		
	Nickel	ppm	ASTM D5185(m)		<1		
	Titanium	ppm	ASTM D5185(m)	7	0		
	Silver	ppm	ASTM D5185(m)	>3	0		
	Aluminum	ppm	ASTM D5185(m)		10		
	Lead	ppm	ASTM D5185(m)		5		
	Copper	ppm		>330	1		
	Tin	ppm	ASTM D5185(m)		0		
	Vanadium	ppm	ASTM D5185(m)		0		
ONT A BUN A TION							
CONTAMINATION	Silicon	ppm	ASTM D5185(m)		15		
Light fuel dilution occurring.	Potassium	ppm	ASTM D5185(m)		<1		
	Fuel	%	ASTM D7593*	>5	▲ 3.5		
	Water		WC Method	>0.2	NEG		
	Glycol Soot %	%	WC Method ASTM D7844*	. 0	NEG 0		
	Nitration	Abs/cm	ASTM D7644 ASTM D7624*	>3 >20	12.1		
	Sulfation	Abs/.1mm			25.4		
	Emulsified Water		Visual*	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		23		
Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.	n of Boron	ppm	ASTM D5185(m)		<u> </u>		
	Barium	ppm	ASTM D5185(m)		<1		
	Molybdenum	ppm	ASTM D5185(m)		128		
	Manganese	ppm	ASTM D5185(m)		<1		
	Magnesium	ppm	ASTM D5185(m)		402		
	Calcium	ppm	ASTM D5185(m)		1091		
	Phosphorus	ppm	ASTM D5185(m)		538		
	Zinc	ppm	ASTM D5185(m)		652		
	Sulfur	ppm	ASTM D5185(m)		<u> </u>		
	Oxidation	Abs/.1mm	ASTM D7414*		20.3		





ISO 17025:2017
Accredited
Laboratory

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

 Sample No.
 : GFL0097983
 Received
 : 10 May 2024

 Lab Number
 : 02634502
 Tested
 : 13 May 2024

 Unique Number
 : 5775655
 Diagnosed
 : 13 May 2024 - 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.