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

Machine Id 51873M

Component Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (LTR)					.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0893702		
	Sample Date		Client Info		27 Feb 2024		
	Machine Age	mls	Client Info		29413		
	Oil Age	mls	Client Info		29413		
	Filter Age	mls	Client Info		29413		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185(m)	>90	33		
Metal levels are typical for a components first oil change.	Chromium	ppm	ASTM D5185(m)	>20	3		
	Nickel	ppm	ASTM D5185(m)	>2	<1		
	Titanium	ppm	ASTM D5185(m)	>2	0		
	Silver	ppm	ASTM D5185(m)	>2	0		
	Aluminum	ppm	ASTM D5185(m)	>20	20		
	Lead	ppm	ASTM D5185(m)	>40	0		
	Copper	ppm	ASTM D5185(m)	>330	4		
	Tin	ppm	ASTM D5185(m)	>15	0		
	Vanadium	ppm	ASTM D5185(m)		0		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	\25	4		
	Potassium	ppm	ASTM D5185(m)		50		
There is no indication of any contamination in the oil.	Fuel	РРШ	WC Method		<1.0		
	Water		WC Method		NEG		
	Glycol	%	ASTM D7922*		0.0		
	Soot %	%	ASTM D7844*	>6	0.4		
	Nitration	Abs/cm	ASTM D7624*	>20	9.1		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	20.7		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		158		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	250	1		
	Barium	ppm	ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m)		68		
	Manganese	ppm	ASTM D5185(m)		0		
	Magnesium	ppm	ASTM D5185(m)	450	1006		
	Calcium	ppm	ASTM D5185(m)	3000	1077		
	Phosphorus	ppm	ASTM D5185(m)	1150	981		
	Zinc	ppm	ASTM D5185(m)	1350	1204		
	Sulfur	ppm	ASTM D5185(m)	4250	2363		
	Oxidation	Abs/.1mm	ASTM D7414*	>25	17.2		
	Visc @ 100°C	cSt	ASTM D7279(m)	10.9	11.8		





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Unique Number : 5750681

: WC0893702 Lab Number : 02625562

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received **Tested**

: 01 Apr 2024 : 01 Apr 2024 - Wes Davis Diagnosed

: 01 Apr 2024

Test Package : MOB 1 (Additional Tests: Glycol) 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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