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

Area [331084] A-I-E1

Component Diesel Engine

RECOMMENDATION	Toot	LIONA	Method	Limit/Abr	Current	Lliotomid	Lictor C
Resample at the next service interval to monitor.	Test Sample Number	UOM	Client Info	Limit/Abn	Current CU0022035	History1	History2
	Sample Number		Client Info		18 Dec 2023		
	Machine Age	hrs	Client Info		70		
	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		
VEAD							
VEAR	Iron	ppm	ASTM D5185(m)		6		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185(m)		0		
	Nickel	ppm	ASTM D5185(m)		<1		
	Titanium	ppm	ASTM D5185(m)		1		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)		1		
	Lead	ppm	ASTM D5185(m)		1		
	Copper	ppm	ASTM D5185(m)		5		
	Tin	ppm	ASTM D5185(m)	>15	<1		
	Vanadium	ppm	ASTM D5185(m)		0		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	6		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)		<1		
	Fuel		WC Method		<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method		NEG		
	Soot %	%	ASTM D7844*	>6	0		
	Nitration	Abs/cm	ASTM D7624*	>20	7.0		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	19.5		
	<b>Emulsified Water</b>	scalar	Visual*	>0.2	NEG		
I LUD CONDITION	0 12		AOTM DE40E()				
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		3		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		36		
	Barium	ppm	ASTM D5185(m)		3		
	Molybdenum	ppm	ASTM D5185(m)		43		
	Manganese Magnesium	ppm	ASTM D5185(m)		<1 707		
	Calcium	ppm	ASTM D5185(m) ASTM D5185(m)				
	Phosphorus	ppm	ASTM D5185(III) ASTM D5185(m)		1608		
		ppm	ASTM D5185(m) ASTM D5185(m)		780 873		
	Zinc	ppm	ASTM D5185(m) ASTM D5185(m)		2330		
	Oxidation	ppm Abs/.1mm	ASTM D5185(m) ASTM D7414*	>25	16.8		
	AMUATION	∩u3/.111111	70 HVI D/414	100	10.0		





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: CU0022035 Lab Number : 02604389 Unique Number : 5697474 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 20 Dec 2023 : 20 Dec 2023 **Tested** 

: 20 Dec 2023 - Wes Davis Diagnosed

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.

**CUMMINS EASTERN CANADA LP** 

315 AV LIBERTE CANDIAC, QC **CA J5R 6Z7** 

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