WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

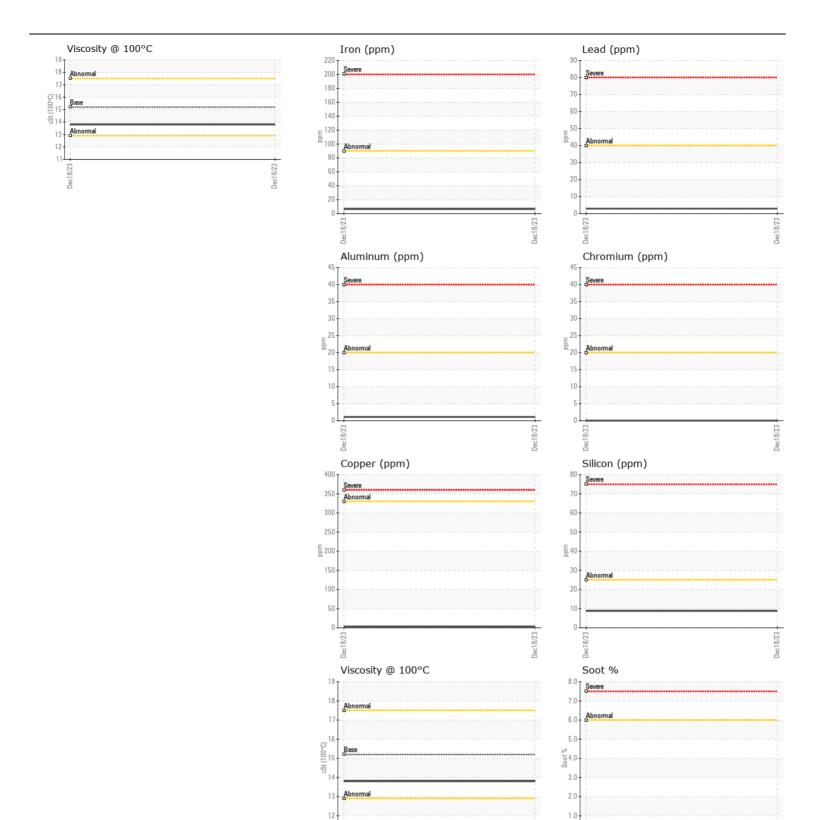
Area [331084]

Machine Id

Component Diesel Engine

VALVOLINE PREMIUM BLUE 2000 15W40 (--- GAL)

DECOMMENDATION							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		CU0022061		
	Sample Date		Client Info		18 Dec 2023		
	Machine Age	hrs	Client Info		65		
	Oil Age	hrs	Client Info		65		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185(m)	>90	6		
Metal levels are typical for a components first oil change.	Chromium	ppm	ASTM D5185(m)	>20	0		
	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	1		
	Lead	ppm	ASTM D5185(m)	>40	3		
	Copper	ppm	ASTM D5185(m)	>330	3		
	Tin	ppm	ASTM D5185(m)	>15	<1		
	Vanadium	ppm	ASTM D5185(m)		0		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>25	9		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)		<1		
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	ASTM D7844*	>6	0		
	Nitration	Abs/cm	ASTM D7624*	>20	6.4		
	Sulfation	Abs/.1mm	ASTM D7415*	>30	19.3		
	Emulsified Water	scalar	Visual*	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		4		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		36		
	Barium	ppm	ASTM D5185(m)		<1		
	Molybdenum	ppm	ASTM D5185(m)		53		
	Manganese	ppm	ASTM D5185(m)		<1		
	Magnesium	ppm	ASTM D5185(m)		686		
	Calcium	ppm	ASTM D5185(m)		1563		
	Phosphorus	ppm	ASTM D5185(m)		725		
	Zinc	ppm	ASTM D5185(m)		812		
	Sulfur	ppm	ASTM D5185(m)		2150		
	Oxidation	Abs/.1mm	ASTM D7414*	>25	15.8		
	Visc @ 100°C	cSt	ASTM D7279(m)	15.0	13.8		





CALA ISO 17025:2017 Accredited Laboratory

Sample No.

Laboratory : CU0022061 Lab Number : 02604384

Unique Number : 5697469 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

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