



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**[99891]**  
 Machine Id  
**10-250-001 (S/N 30367205)**  
 Component  
**Diesel Engine**  
 Fluid  
**VALVOLINE 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>CU0020701</b>	CU0016206	CU0015681
Sample Date		Client Info		<b>20 Jan 2024</b>	04 Jul 2020	06 Oct 2019
Machine Age	hrs	Client Info		<b>452</b>	357	346
Oil Age	hrs	Client Info		<b>40</b>	0	21
Filter Age	hrs	Client Info		<b>40</b>	0	21
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	<b>3</b>	2	2
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	8
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	1
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185(m)	>330	<b>21</b>	<1	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	<1

## CONTAMINATION

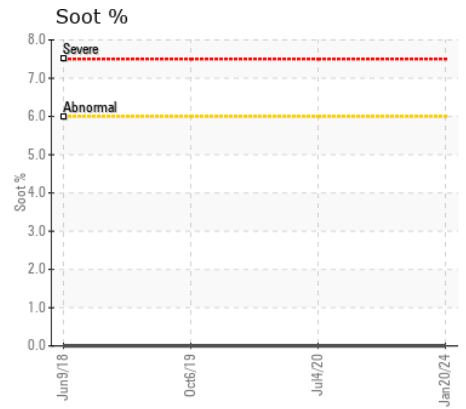
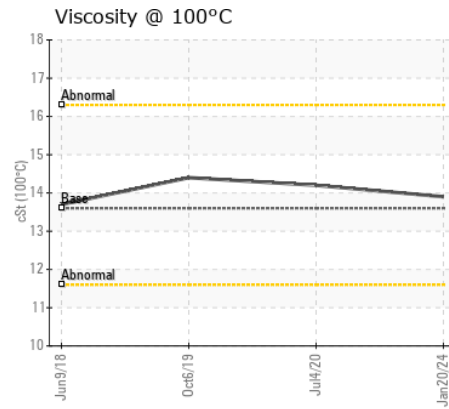
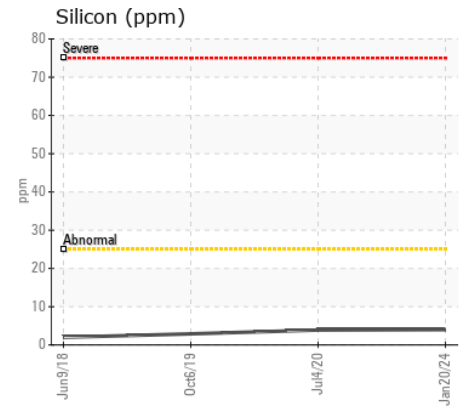
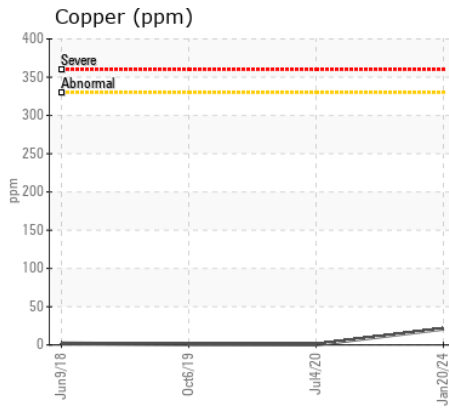
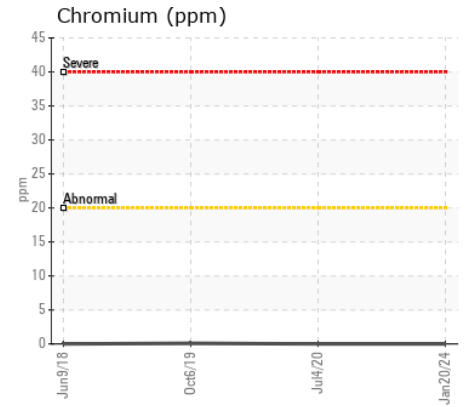
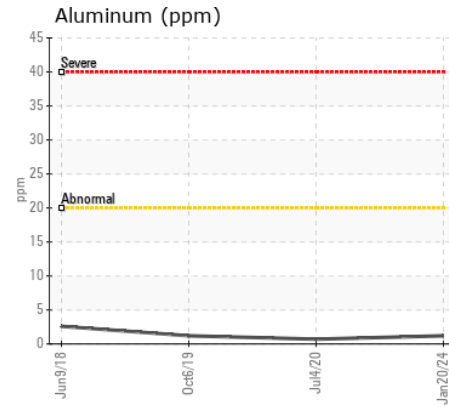
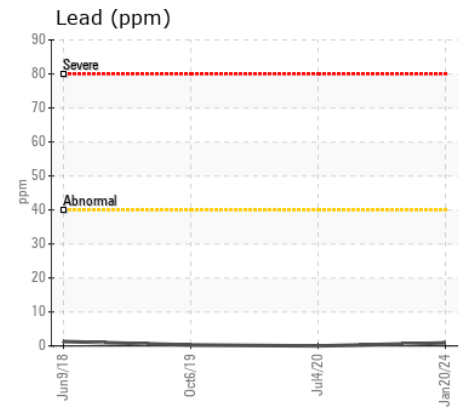
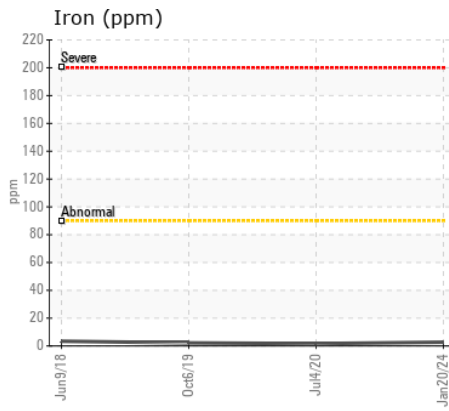
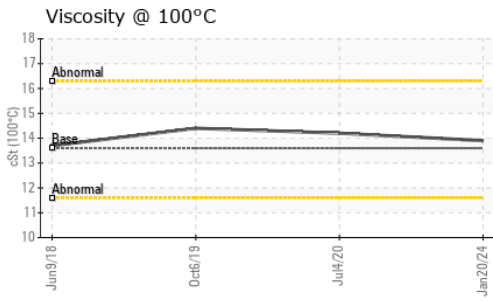
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	4	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>6	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.8</b>	7.2	6.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.2</b>	24.6	21.6
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>3</b>	3	2
Boron	ppm	ASTM D5185(m)	39	<b>43</b>	60	67
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	49	<b>46</b>	46	43
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	616	<b>768</b>	619	590
Calcium	ppm	ASTM D5185(m)	1554	<b>1189</b>	1582	1563
Phosphorus	ppm	ASTM D5185(m)	899	<b>712</b>	1057	1061
Zinc	ppm	ASTM D5185(m)	1069	<b>799</b>	1210	1203
Sulfur	ppm	ASTM D5185(m)	2624	<b>2051</b>	2728	2775
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>17.6</b>	15.9	15.8
Visc @ 100°C	cSt	ASTM D7279(m)	13.6	<b>13.9</b>	14.2	14.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : CU0020701  
**Lab Number** : 02610848  
**Unique Number** : 5719943  
**Test Package** : MOB 1

**CUMMINS EASTERN CANADA LP**  
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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.