



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**[5813]**  
 Machine Id  
**2102**  
 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>WC0875106</b>	WC0858024	WC0843551
Sample Date		Client Info		<b>06 Dec 2023</b>	04 Nov 2023	29 Sep 2023
Machine Age	kms	Client Info		<b>243844</b>	235133	225331
Oil Age	kms	Client Info		<b>0</b>	0	0
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>75	<b>5</b>	7	7
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>15	<b>1</b>	<1	1
Lead	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185(m)	>100	<b>&lt;1</b>	1	1
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

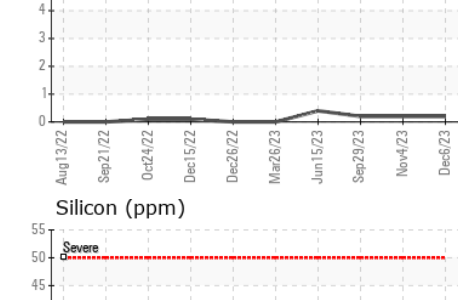
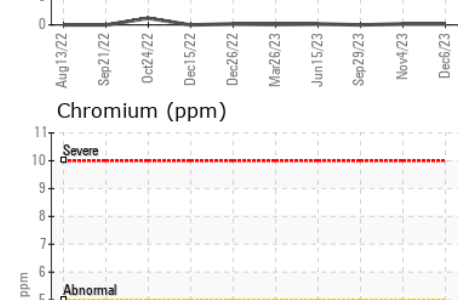
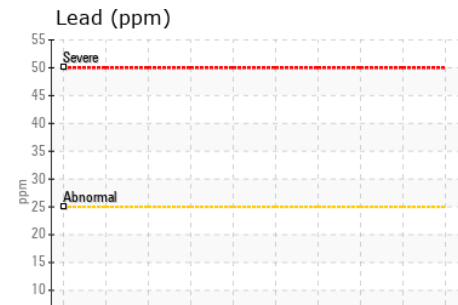
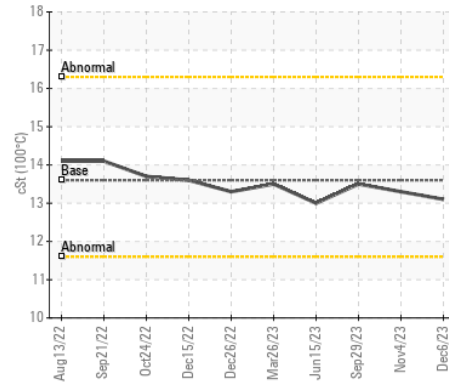
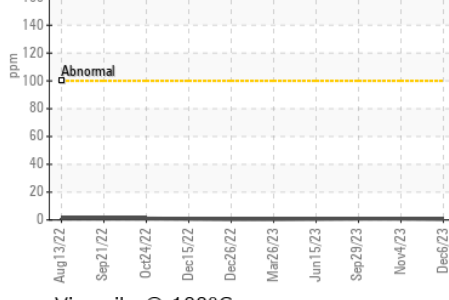
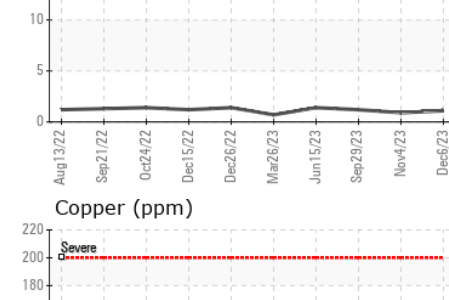
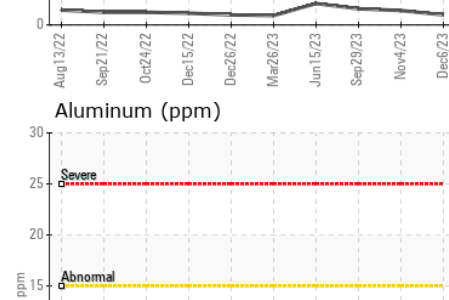
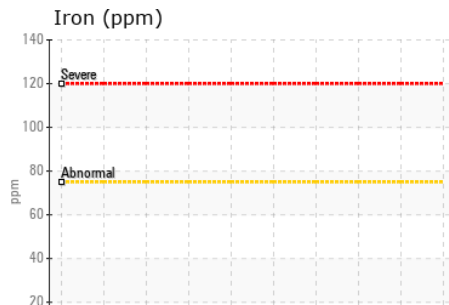
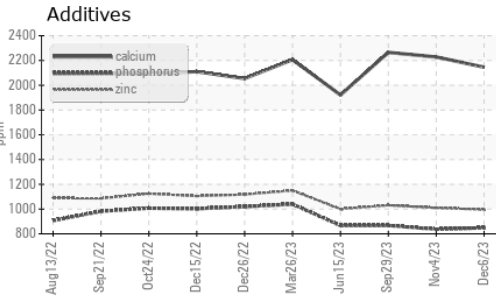
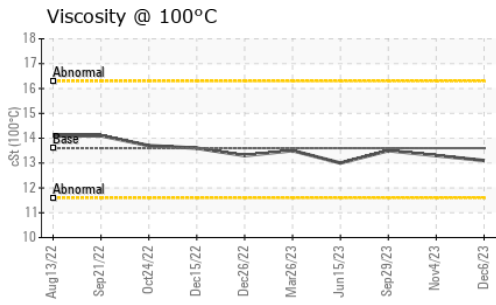
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	0
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>0.1</b>	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.5</b>	7.9	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.6</b>	19.6	19.8
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>1</b>	2	2
Boron	ppm	ASTM D5185(m)	39	<b>10</b>	9	10
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	49	<b>7</b>	8	8
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	616	<b>46</b>	39	26
Calcium	ppm	ASTM D5185(m)	1554	<b>2146</b>	2228	2265
Phosphorus	ppm	ASTM D5185(m)	899	<b>849</b>	837	867
Zinc	ppm	ASTM D5185(m)	1069	<b>995</b>	1010	1031
Sulfur	ppm	ASTM D5185(m)	2624	<b>3107</b>	2906	2939
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>11.6</b>	13.0	13.5
Visc @ 100°C	cSt	ASTM D7279(m)	13.6	<b>13.1</b>	13.3	13.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0875106 **Received** : 08 Jan 2024  
**Lab Number** : 02606970 **Diagnosed** : 08 Jan 2024  
**Unique Number** : 5708056 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**MVT Canadian Bus**  
 133 Welham Road  
 Barrie, ON  
 CA L4N 8Y3  
 Contact: Kyle Trew  
 kyle.trew@mvtcanada.com  
 T:  
 F:

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.