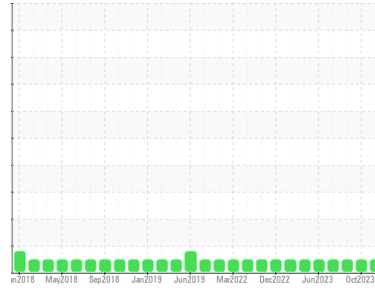




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**[5230]**  
 Machine Id  
**NOVA 1707**  
 Component  
**Diesel Engine**  
 Fluid  
**VALVOLINE 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0858021</b>	WC0843558	WC0828565
Sample Date	Client Info		<b>02 Nov 2023</b>	01 Oct 2023	23 Aug 2023
Machine Age	kms	Client Info	<b>504551</b>	495280	486412
Oil Age	kms	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Changed</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	<b>5</b>	5	5
Chromium	ppm	ASTM D5185(m) >20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m) >4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m) >3	<b>&lt;1</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	0
Copper	ppm	ASTM D5185(m) >330	<b>2</b>	2	2
Tin	ppm	ASTM D5185(m) >15	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 39	<b>9</b>	8	13
Barium	ppm	ASTM D5185(m) 1	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185(m) 49	<b>8</b>	8	16
Manganese	ppm	ASTM D5185(m) 1	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m) 616	<b>37</b>	26	29
Calcium	ppm	ASTM D5185(m) 1554	<b>2178</b>	2200	2160
Phosphorus	ppm	ASTM D5185(m) 899	<b>818</b>	866	935
Zinc	ppm	ASTM D5185(m) 1069	<b>990</b>	1011	1027
Sulfur	ppm	ASTM D5185(m) 2624	<b>2846</b>	2933	2966
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

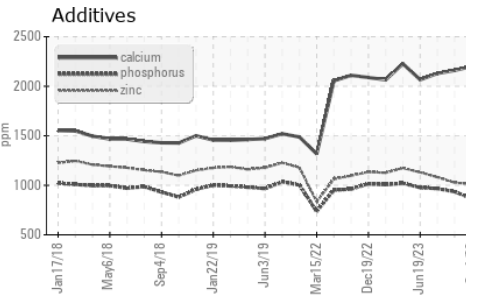
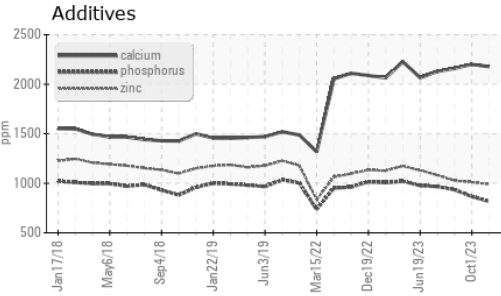
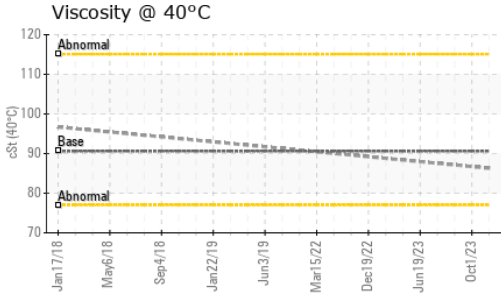
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>3</b>	4	4
Sodium	ppm	ASTM D5185(m)	<b>2</b>	4	4
Potassium	ppm	ASTM D5185(m) >20	<b>0</b>	0	<1

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	ASTM D7624* >20	<b>7.9</b>	8.1	8.3
Sulfation	Abs./1mm	ASTM D7415* >30	<b>19.9</b>	20.0	20.4



# OIL ANALYSIS REPORT

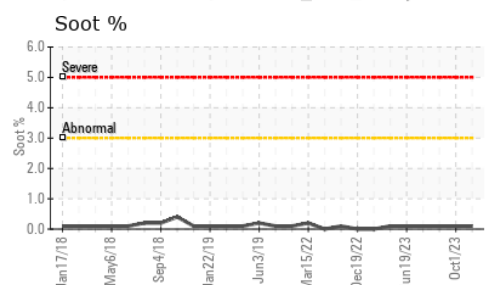
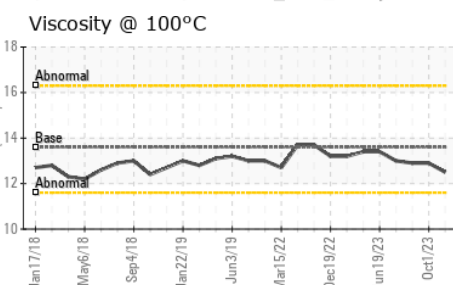
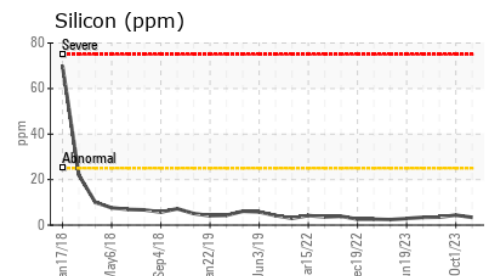
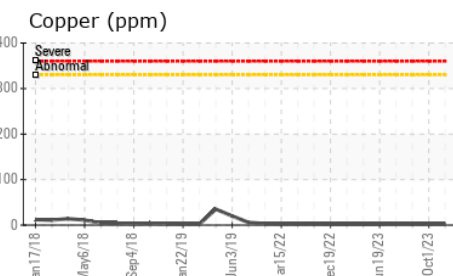
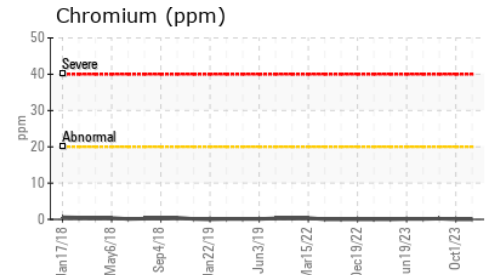
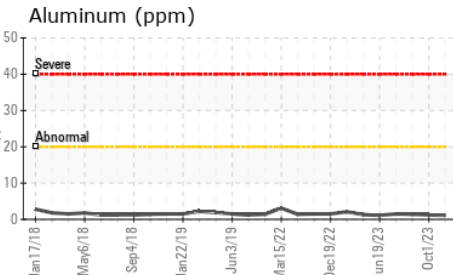
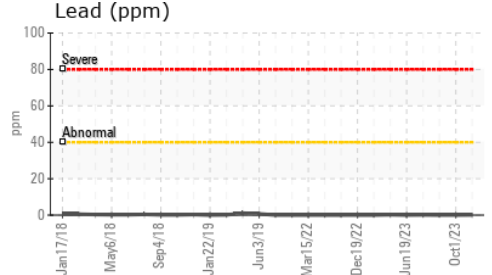
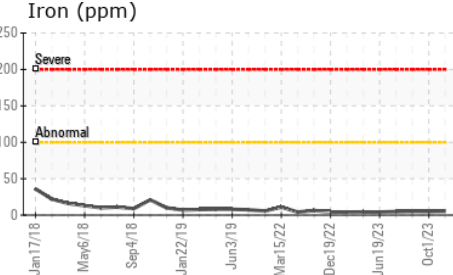


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>13.6</b>	14.1	15.1

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	90.6	<b>86.3</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	13.6	<b>12.5</b>	12.9	12.9
Viscosity Index (VI)	Scale	ASTM D2270*	136	<b>141</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0858021      **Received** : 06 Dec 2023  
**Lab Number** : **02601150**      **Diagnosed** : 06 Dec 2023  
**Unique Number** : 5694235      **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI )

**MVT Canadian Bus**  
 133 Welham Road  
 Barrie, ON  
 CA L4N 8Y3  
 Contact: Frank Mastromarco  
 frank.mastromarco@mvttransit.com  
 T: (709)792-5033  
 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.