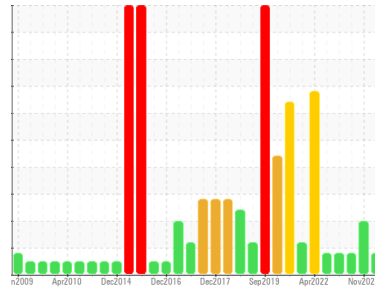




# OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id  
**NOVA BUS 60041**  
 Component  
**Rear Diesel Engine**  
 Fluid  
**VALVOLINE 15W40 (24 LTR)**

## DIAGNOSIS

### Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

### Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0887260</b>	WC0809117	WC0809146
Sample Date	Client Info		<b>14 Dec 2023</b>	21 Nov 2023	16 May 2023
Machine Age	kms	Client Info	<b>910120</b>	907486	882719
Oil Age	kms	Client Info	<b>10000</b>	10000	10000
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>ABNORMAL</b>	SEVERE	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
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)	>75	<b>8</b>	33	22
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	2	1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>100	<b>&lt;1</b>	2	1
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
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>&lt;1</b>	2	2
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	49	<b>57</b>	57	58
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	616	<b>942</b>	886	925
Calcium	ppm	ASTM D5185(m)	1554	<b>1005</b>	975	1053
Phosphorus	ppm	ASTM D5185(m)	899	<b>980</b>	849	1020
Zinc	ppm	ASTM D5185(m)	1069	<b>1147</b>	1074	1128
Sulfur	ppm	ASTM D5185(m)	2624	<b>2657</b>	2207	2443
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

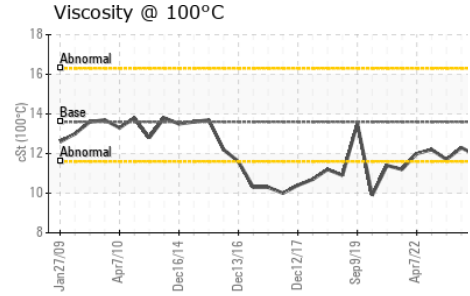
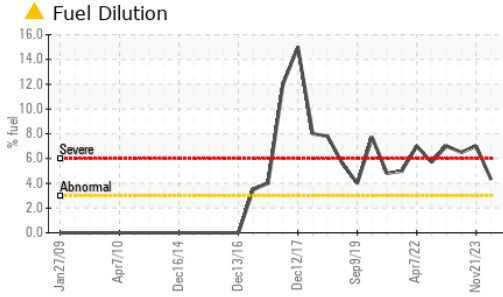
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	3	4
Sodium	ppm	ASTM D5185(m)		<b>4</b>	9	7
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Fuel	%	ASTM D7593*	>3.0	<b>▲ 4.3</b>	7	▲ 6.5

## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	<b>0.1</b>	0.6	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.3</b>	13.1	10.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.7</b>	26.6	22.6



# OIL ANALYSIS REPORT

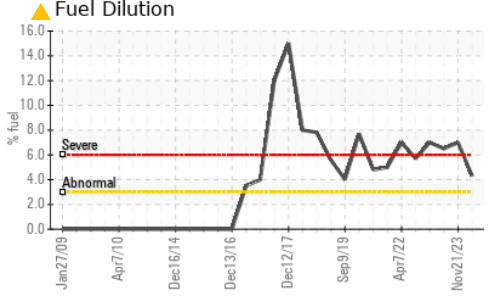
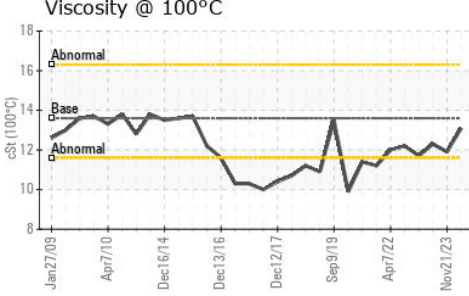
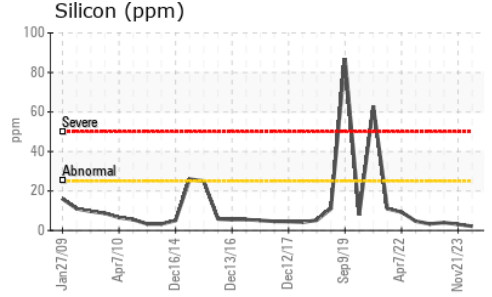
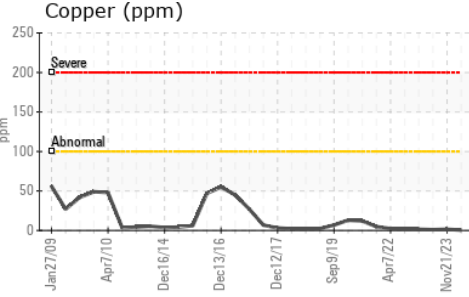
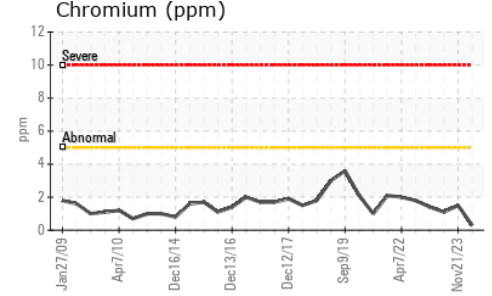
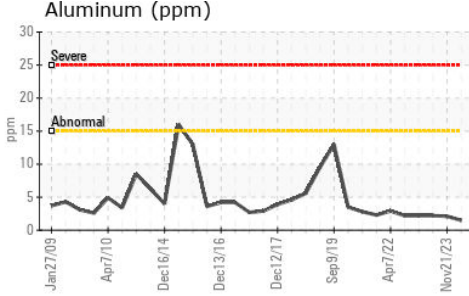
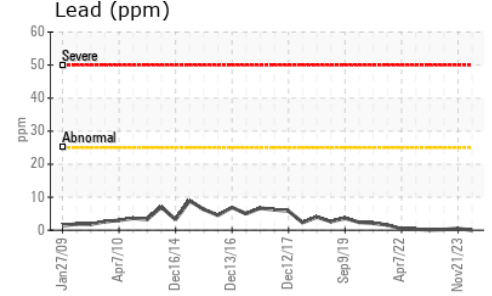
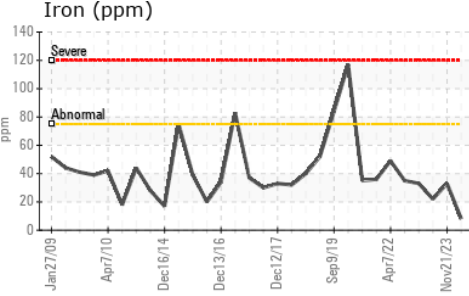


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs.:1mm	ASTM D7414*	>25	<b>16.1</b>	28.9	21.3

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 @ 100°C	cSt	ASTM D7279(m)	13.6	<b>13.1</b>	11.9	12.3

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0887260 **Received** : 20 Dec 2023  
**Lab Number** : 02604314 **Diagnosed** : 21 Dec 2023  
**Unique Number** : 5697399 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: PercentFuel )

**CITY OF PETERBOROUGH**  
 791 WEBBER AVENUE., MUNICIPAL OPERATIONS CENTRE  
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 CA K9J 8N3  
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 T: (705)742-7777  
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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.