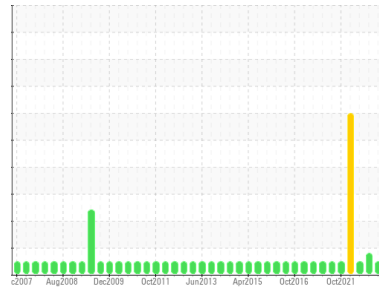




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**NOVA BUS EQ60026**  
 Component  
**Rear Diesel Engine**  
 Fluid  
**VALVOLINE 15W40 (24 LTR)**

## 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>WC0911685</b>	WC0809124	WC0770708
Sample Date	Client Info			<b>04 Apr 2024</b>	27 Sep 2023	26 Jan 2023
Machine Age	kms	Client Info		<b>1047220</b>	1021930	999017
Oil Age	kms	Client Info		<b>10000</b>	10000	10000
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	<b>16</b>	19	16
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>15	<b>2</b>	2	3
Lead	ppm	ASTM D5185(m)	>25	<b>4</b>	6	3
Copper	ppm	ASTM D5185(m)	>100	<b>47</b>	▲ 170	75
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	1	1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	<1
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

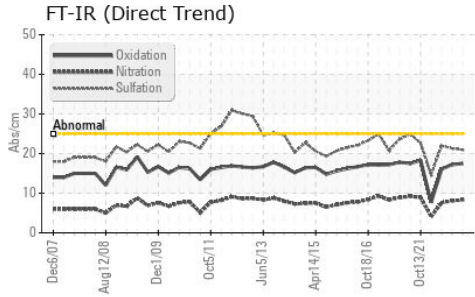
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	39	<b>2</b>	2	26
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	49	<b>60</b>	63	64
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	616	<b>1008</b>	1027	940
Calcium	ppm	ASTM D5185(m)	1554	<b>1065</b>	1086	1151
Phosphorus	ppm	ASTM D5185(m)	899	<b>973</b>	1001	1034
Zinc	ppm	ASTM D5185(m)	1069	<b>1211</b>	1254	1164
Sulfur	ppm	ASTM D5185(m)	2624	<b>2318</b>	2312	2493
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>1</b>	4	6
Sodium	ppm	ASTM D5185(m)		<b>5</b>	7	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	<b>0.2</b>	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.3</b>	8.1	7.6
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>20.9</b>	21.3	22.0



# OIL ANALYSIS REPORT

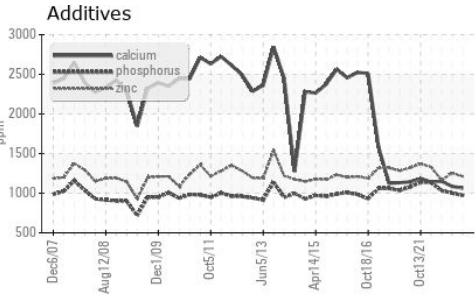


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>17.5</b>	17.2	16.1

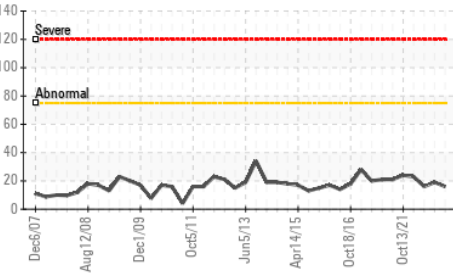
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	13.6	<b>14.4</b>	14.4	14.1

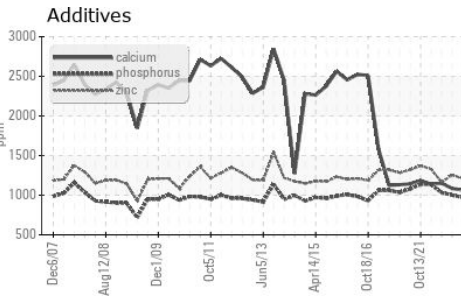
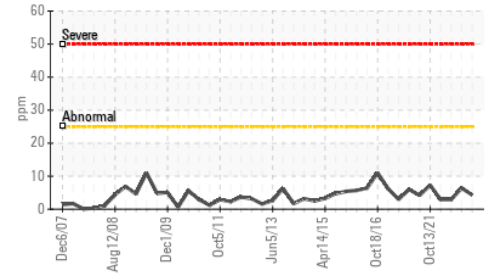
GRAPHS		method	limit/base	current	history1	history2
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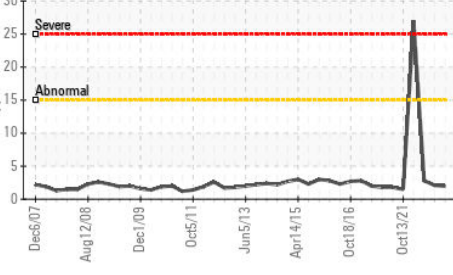
### Iron (ppm)



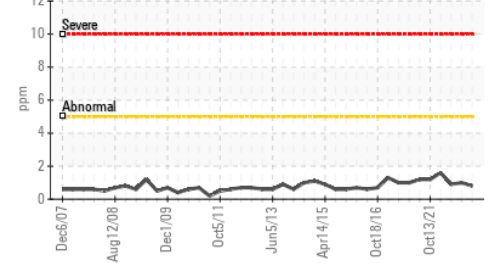
### Lead (ppm)



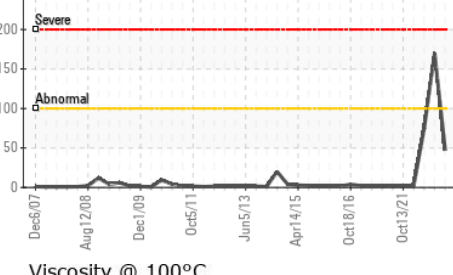
### Aluminum (ppm)



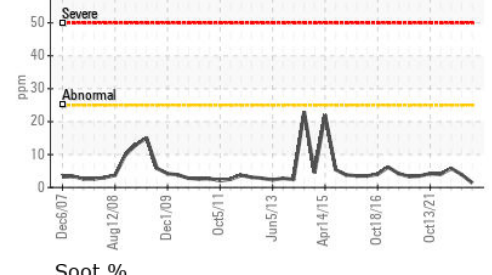
### Chromium (ppm)



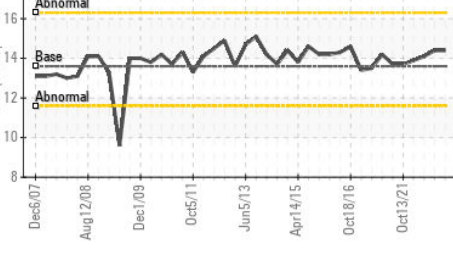
### Copper (ppm)



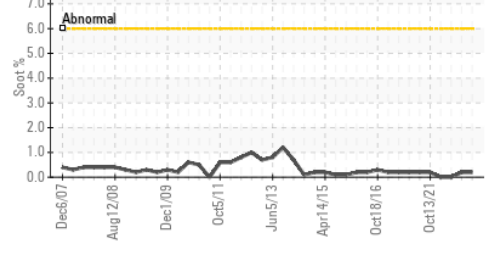
### Silicon (ppm)



### Viscosity @ 100°C



### Soot %



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0911685  
**Lab Number** : **02627587**  
**Unique Number** : 5760719  
**Test Package** : MOB 1

**CITY OF PETERBOROUGH**  
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 fcurran@peterborough.ca  
 T: (705)742-7777  
 F: (705)743-3223

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.