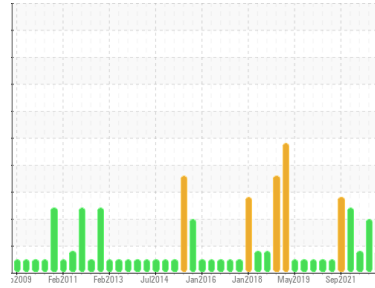




# OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id  
**NOVA BUS T36 EQ60036**  
 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>WC0809126</b>	WC0734912	WC0700633
Sample Date	Client Info		<b>11 Oct 2023</b>	02 Nov 2022	20 Jun 2022
Machine Age	kms	Client Info	<b>930974</b>	900733	878535
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

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>75	<b>19</b>	32	34
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	1	1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>15	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	2	1
Copper	ppm	ASTM D5185(m)	>100	<b>1</b>	2	3
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	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>2</b>	3	3
Barium	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	49	<b>58</b>	58	14
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	616	<b>924</b>	898	191
Calcium	ppm	ASTM D5185(m)	1554	<b>1012</b>	1049	1942
Phosphorus	ppm	ASTM D5185(m)	899	<b>945</b>	967	833
Zinc	ppm	ASTM D5185(m)	1069	<b>1132</b>	1086	984
Sulfur	ppm	ASTM D5185(m)	2624	<b>2363</b>	2413	2721
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>12</b>	13	5
Potassium	ppm	ASTM D5185(m)	>20	<b>6</b>	10	5
Fuel	%	ASTM D7593*	>3.0	<b>▲ 4.7</b>	7.7	▲ 5
Glycol	%	ASTM D7922*		<b>0.0</b>	0.0	NEG

## INFRA-RED

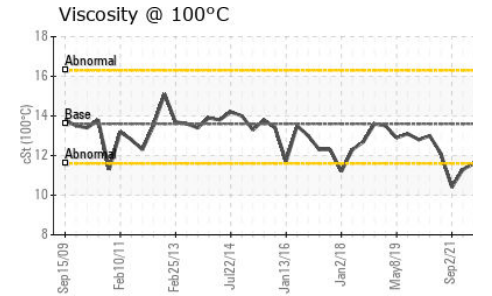
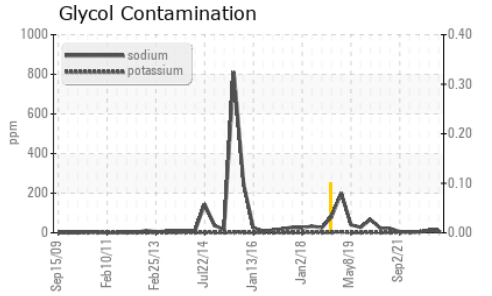
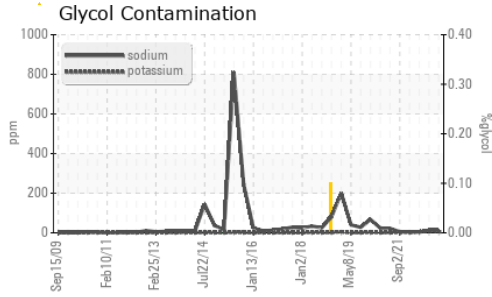
	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	<b>0.5</b>	0.6	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>10.4</b>	11.8	9.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>23.9</b>	26.5	23.6

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>24.5</b>	27.6	15.7



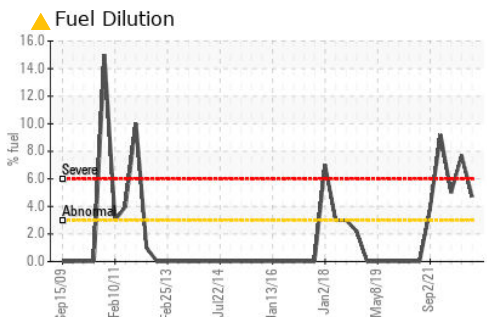
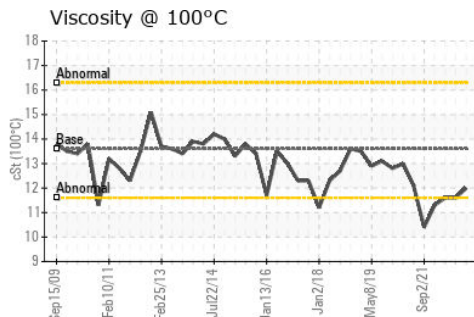
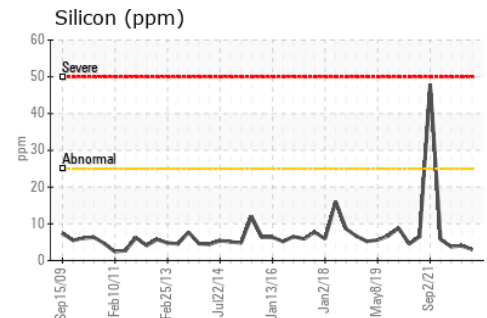
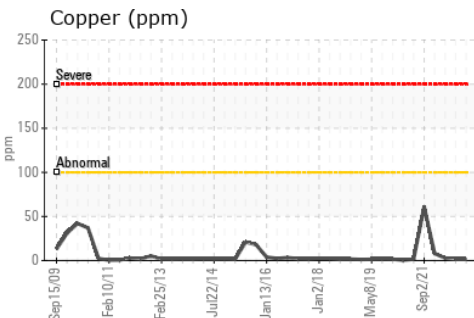
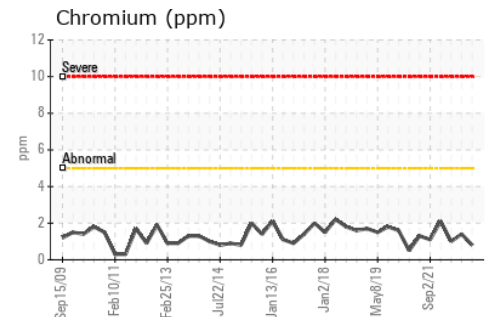
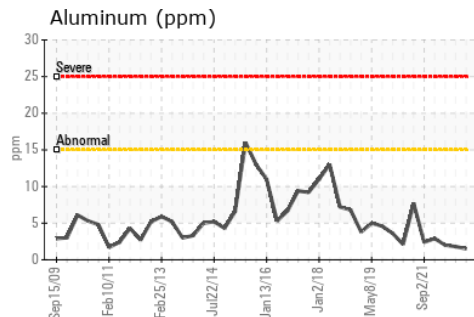
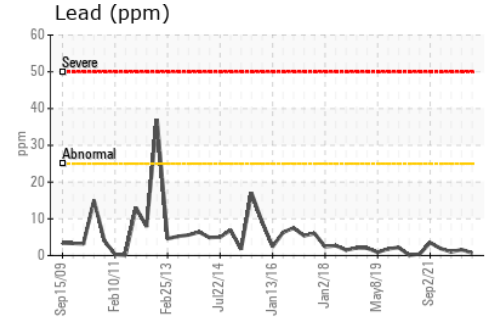
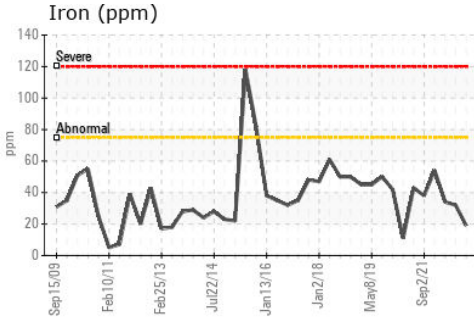
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	13.6	12.0	11.6

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0809126 **Received** : 16 Oct 2023  
**Lab Number** : 02589137 **Diagnosed** : 17 Oct 2023  
**Unique Number** : 5658203 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Glycol, PercentFuel )

**CITY OF PETERBOROUGH**  
 791 WEBBER AVENUE., MUNICIPAL OPERATIONS CENTRE  
 PETERBOROUGH, ON  
 CA K9J 8N3  
 Contact: Frank Curran  
 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.