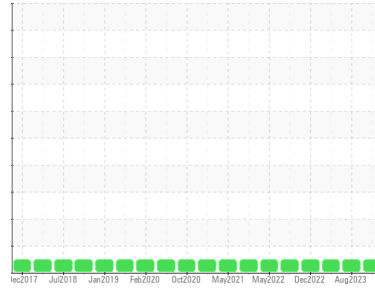




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**NOVA EQ60073**  
 Component  
**Rear Diesel Engine**  
 Fluid  
**VALVOLINE 15W40 (23 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>WC0809111</b>	WC0809096	WC0770737
Sample Date	Client Info			<b>23 Oct 2023</b>	21 Aug 2023	12 Apr 2023
Machine Age	kms	Client Info		<b>442646</b>	430168	404144
Oil Age	kms	Client Info		<b>10000</b>	10000	10000
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method		>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	<b>22</b>	28	11
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	<1
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>15	<b>2</b>	2	3
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>100	<b>2</b>	2	2
Tin	ppm	ASTM D5185(m)	>4	<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>3</b>	1	2
Barium	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	49	<b>70</b>	61	60
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	616	<b>1132</b>	1018	968
Calcium	ppm	ASTM D5185(m)	1554	<b>1236</b>	1085	1134
Phosphorus	ppm	ASTM D5185(m)	899	<b>1139</b>	1092	1100
Zinc	ppm	ASTM D5185(m)	1069	<b>1411</b>	1272	1248
Sulfur	ppm	ASTM D5185(m)	2624	<b>2771</b>	2494	2569
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

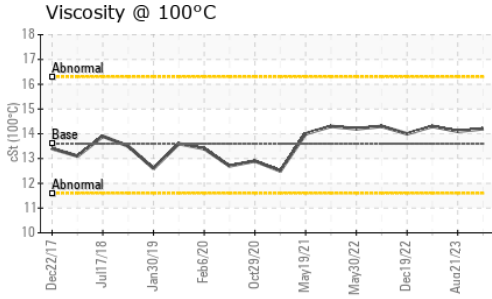
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>8</b>	7	4
Sodium	ppm	ASTM D5185(m)		<b>9</b>	8	6
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	<b>0.3</b>	0.3	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.2</b>	10.0	8.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.7</b>	23.9	19.7

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>18.3</b>	20.9	16.9



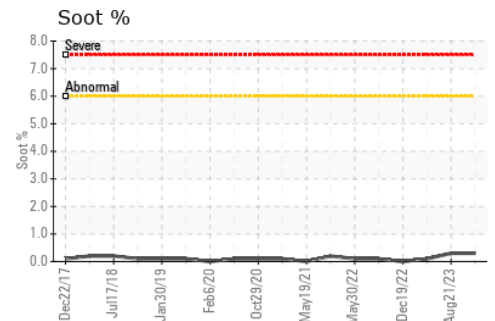
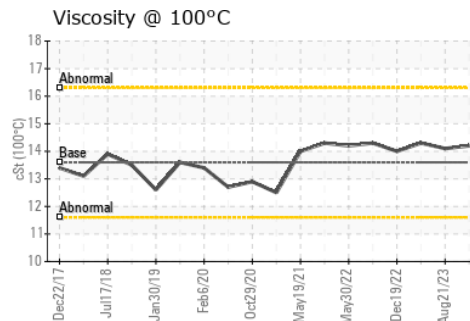
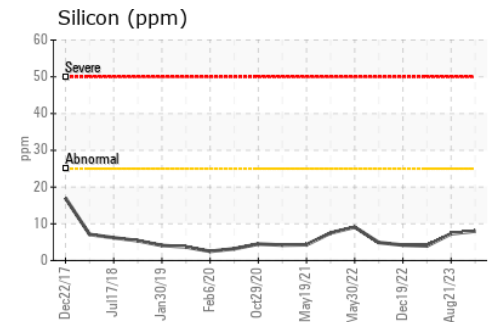
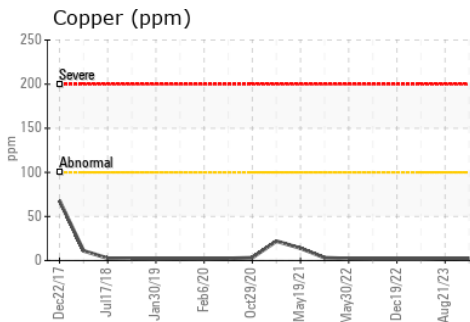
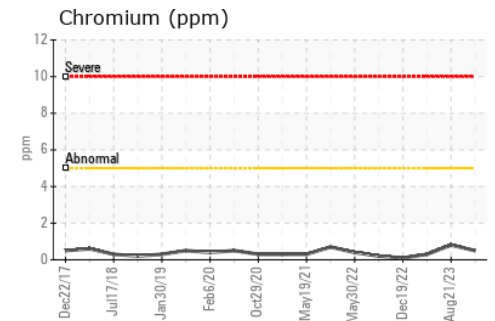
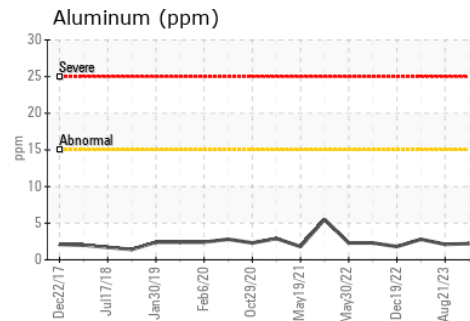
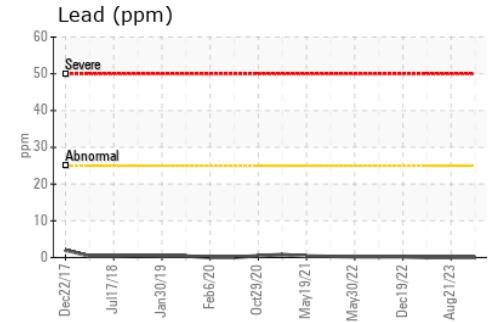
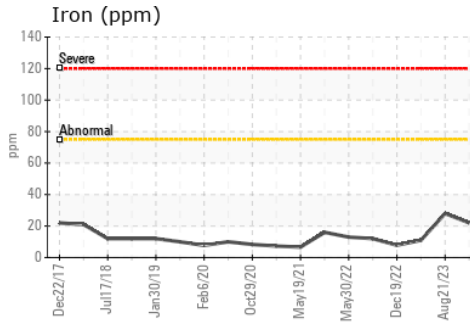
# OIL ANALYSIS REPORT



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	14.2	14.1

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0809111 **Received** : 31 Oct 2023  
**Lab Number** : 02592879 **Diagnosed** : 31 Oct 2023  
**Unique Number** : 5669958 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1

**CITY OF PETERBOROUGH**  
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 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.