



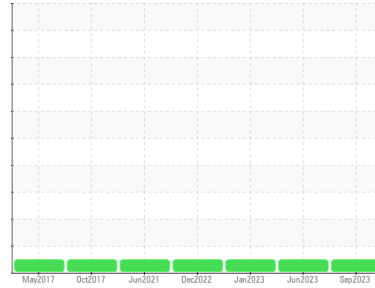
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**[4598]**  
 Machine Id  
**NEW FLYER 1403-312**  
 Component  
**Rear Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (26 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>WC0843563</b>	WC0780469	WC0754257
Sample Date	Client Info		<b>27 Sep 2023</b>	29 Jun 2023	26 Jan 2023
Machine Age	kms	Client Info	<b>485665</b>	481665	450451
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	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Glycol	WC Method		<b>NEG</b>	NEG	0.0

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>75	<b>13</b>	7	8
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>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>15	<b>2</b>	3	2
Lead	ppm	ASTM D5185(m)	>25	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>100	<b>22</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	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)	250	<b>9</b>	98	79
Barium	ppm	ASTM D5185(m)	10	<b>8</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>49</b>	12	20
Manganese	ppm	ASTM D5185(m)		<b>2</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>809</b>	83	144
Calcium	ppm	ASTM D5185(m)	3000	<b>1470</b>	2082	2105
Phosphorus	ppm	ASTM D5185(m)	1150	<b>982</b>	1016	1007
Zinc	ppm	ASTM D5185(m)	1350	<b>1177</b>	1141	1124
Sulfur	ppm	ASTM D5185(m)	4250	<b>2631</b>	2917	2883
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>23</b>	3	4
Sodium	ppm	ASTM D5185(m)	>158	<b>3</b>	4	11
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	8	26

## INFRA-RED

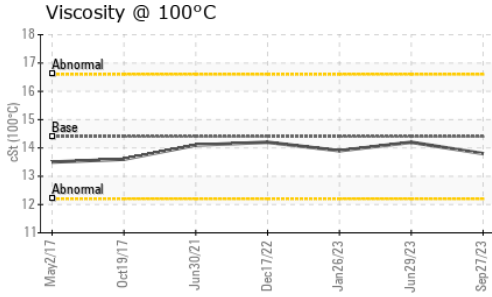
	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	<b>0</b>	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.0</b>	7.9	8.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.1</b>	21.8	22.7

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.3</b>	18.2	16.4



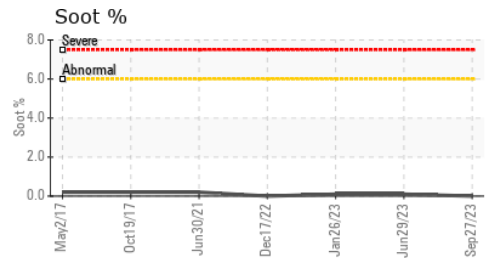
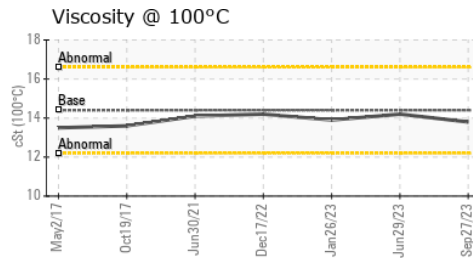
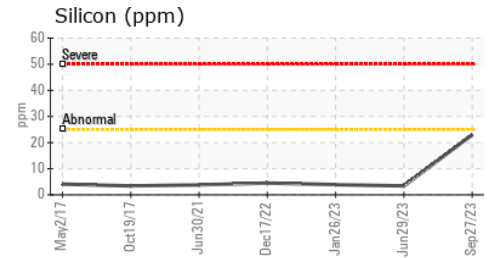
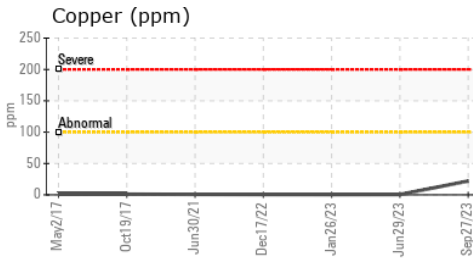
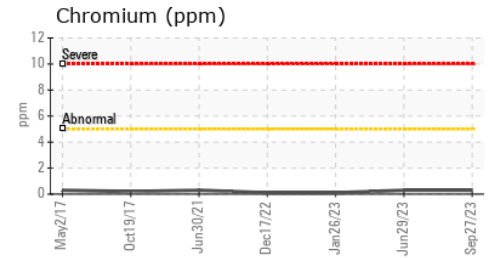
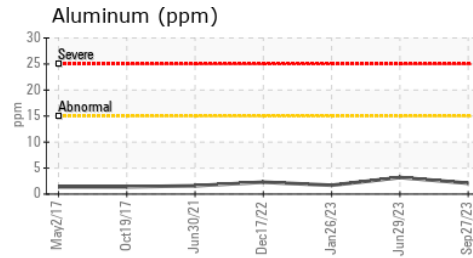
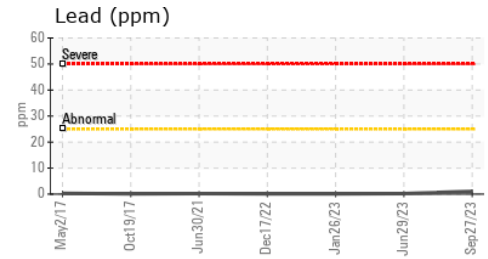
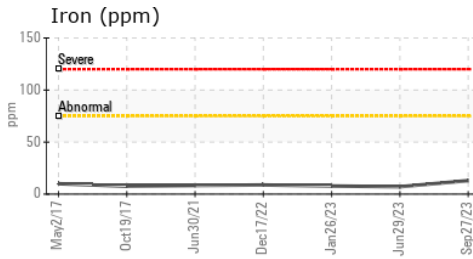
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>LIGHT</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
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)	14.4	<b>13.8</b>	14.2	13.9

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0843563 **Received** : 02 Oct 2023  
**Lab Number** : **02586044** **Diagnosed** : 02 Oct 2023  
**Unique Number** : 5655110 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**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.