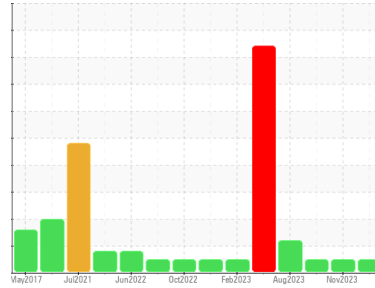




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
NEW FLYER XD40 1102
 Component
Rear Diesel Engine
 Fluid
VALVOLINE 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		WC0891755	WC0875112	WC0843536
Sample Date	Client Info		28 Feb 2024	30 Nov 2023	04 Sep 2023
Machine Age	kms	Client Info	463609	445189	436612
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		N/A	Changed	N/A
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	0.0

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>75	21	17	24
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	0	2	1
Lead	ppm	ASTM D5185(m)	>25	0	<1	<1
Copper	ppm	ASTM D5185(m)	>100	<1	1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	39	8	2	14
Barium	ppm	ASTM D5185(m)	1	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	49	7	55	14
Manganese	ppm	ASTM D5185(m)	1	0	2	<1
Magnesium	ppm	ASTM D5185(m)	616	59	879	28
Calcium	ppm	ASTM D5185(m)	1554	2184	1115	2118
Phosphorus	ppm	ASTM D5185(m)	899	836	950	892
Zinc	ppm	ASTM D5185(m)	1069	978	1140	986
Sulfur	ppm	ASTM D5185(m)	2624	2823	2530	2780
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

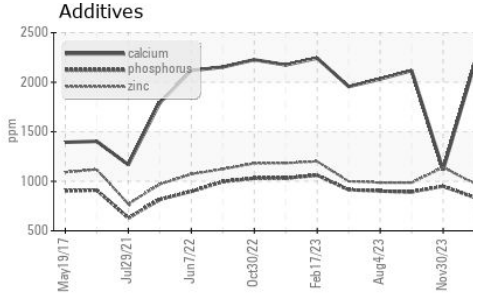
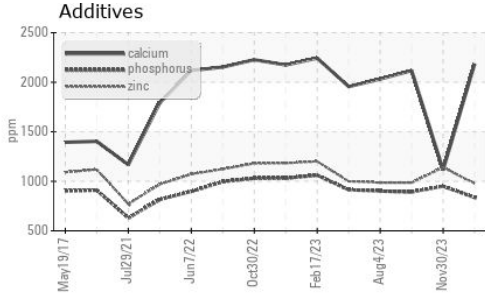
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	4	13	5
Sodium	ppm	ASTM D5185(m)		2	2	16
Potassium	ppm	ASTM D5185(m)	>20	2	2	39

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	0.7	0.2	0.8
Nitration	Abs/cm	ASTM D7624*	>20	9.2	6.6	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.3	19.1	25.5



OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
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Oxidation	Abs./1mm	ASTM D7414*	>25	14.1	14.7	22.0
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VISUAL		method	limit/base	current	history1	history2
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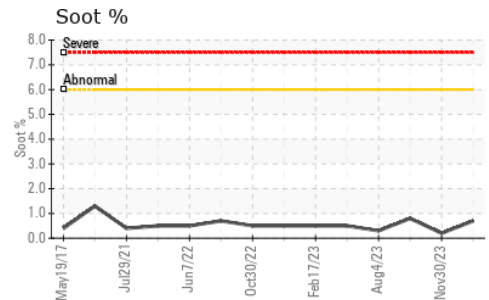
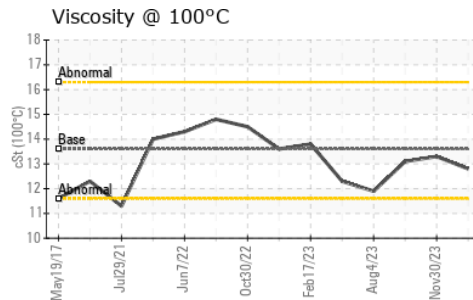
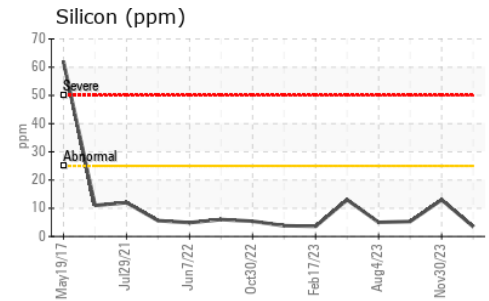
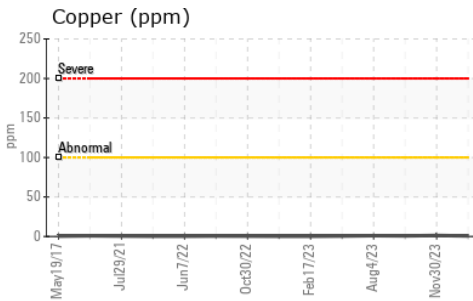
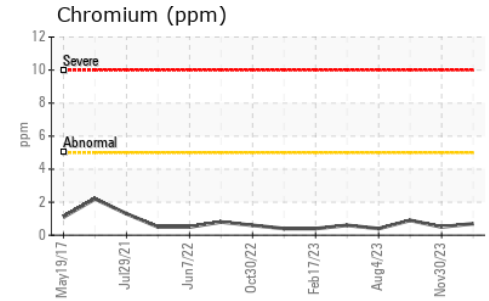
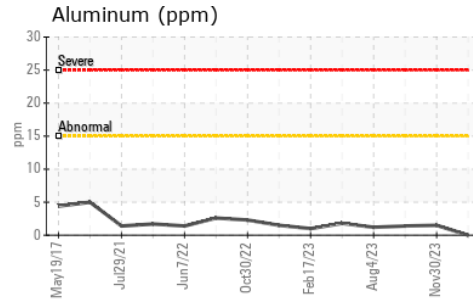
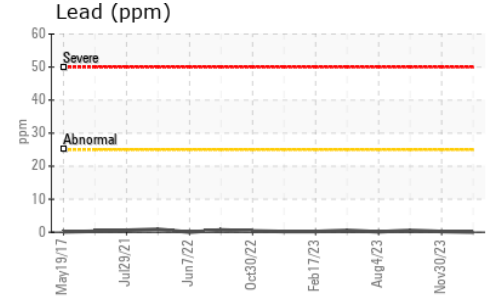
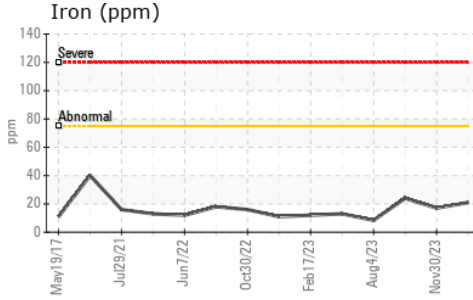
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
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Free Water	scalar	Visual*		NEG	NEG	NEG
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FLUID PROPERTIES		method	limit/base	current	history1	history2
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Visc @ 100°C	cSt	ASTM D7279(m)	13.6	12.8	13.3	13.1
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GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0891755 **Received** : 20 Mar 2024
Lab Number : **02623297** **Tested** : 20 Mar 2024
Unique Number : 5748416 **Diagnosed** : 20 Mar 2024 - Wes Davis
Test Package : MOB 1

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.