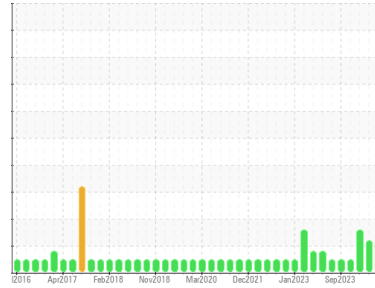




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Area
[775]
 Machine Id
NOVA BUS 1503
 Component
Diesel Engine
 Fluid
VALVOLINE 15W40 (--- GAL)

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		WC0891761	WC0875087	WC0875113
Sample Date	Client Info		19 Feb 2024	03 Jan 2024	29 Nov 2023
Machine Age	kms	Client Info	498656	489530	480216
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ABNORMAL	ABNORMAL	ATTENTION

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	20	19	36
Chromium	ppm	ASTM D5185(m) >20	<1	<1	<1
Nickel	ppm	ASTM D5185(m) >4	0	<1	<1
Titanium	ppm	ASTM D5185(m)	0	0	0
Silver	ppm	ASTM D5185(m) >3	0	0	<1
Aluminum	ppm	ASTM D5185(m) >20	<1	2	2
Lead	ppm	ASTM D5185(m) >40	0	<1	1
Copper	ppm	ASTM D5185(m) >330	11	15	22
Tin	ppm	ASTM D5185(m) >15	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	10	9
Barium	ppm	ASTM D5185(m) 1	0	0	<1
Molybdenum	ppm	ASTM D5185(m) 49	8	8	9
Manganese	ppm	ASTM D5185(m) 1	0	0	0
Magnesium	ppm	ASTM D5185(m) 616	47	48	34
Calcium	ppm	ASTM D5185(m) 1554	2120	2147	2296
Phosphorus	ppm	ASTM D5185(m) 899	796	813	825
Zinc	ppm	ASTM D5185(m) 1069	960	954	1026
Sulfur	ppm	ASTM D5185(m) 2624	2651	2789	2665
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

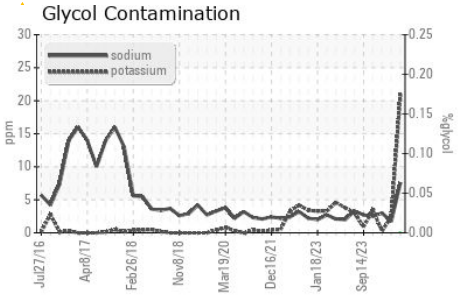
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	5	5	7
Sodium	ppm	ASTM D5185(m)	8	2	3
Potassium	ppm	ASTM D5185(m) >20	21	2	<1
Fuel	%	ASTM D7593*	▲ 5.1	▲ 6.5	▲ 3.2
Glycol	%	ASTM D7922*	0.0	NEG	NEG

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0.3	0.3	0.5
Nitration	Abs/cm	ASTM D7624* >20	9.0	8.5	9.9
Sulfation	Abs/.1mm	ASTM D7415* >30	21.4	20.8	24.5



OIL ANALYSIS REPORT



FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs.:1mm ASTM D7414*	>25	15.9	14.5	20.3

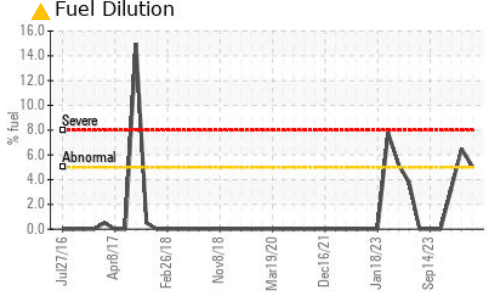
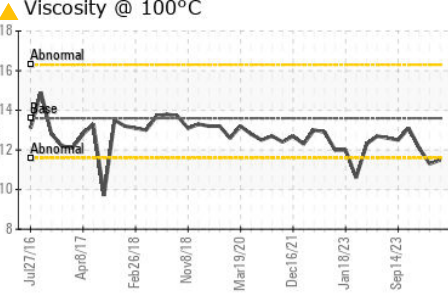
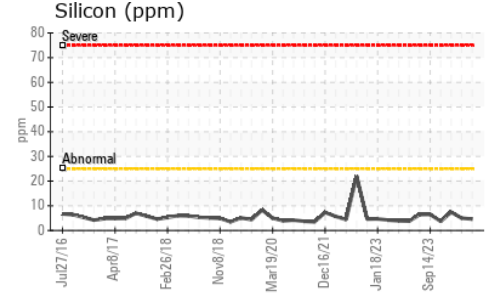
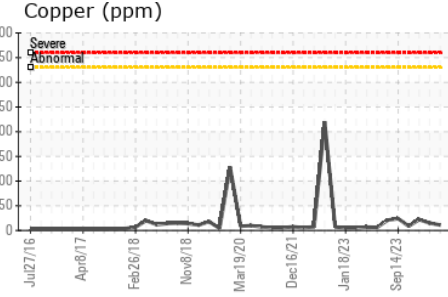
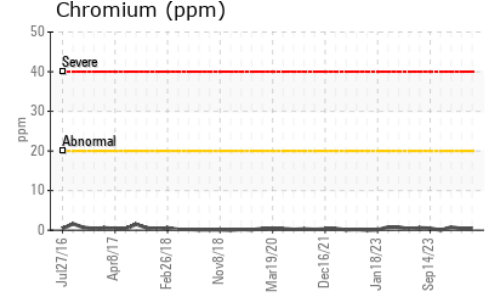
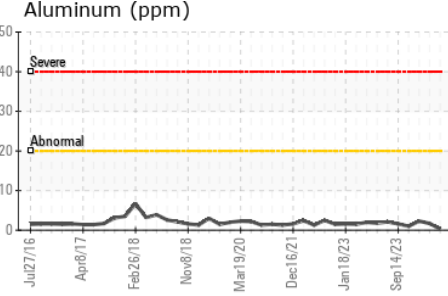
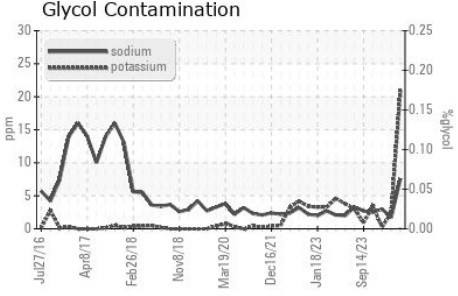
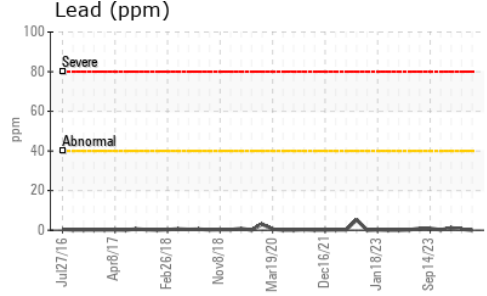
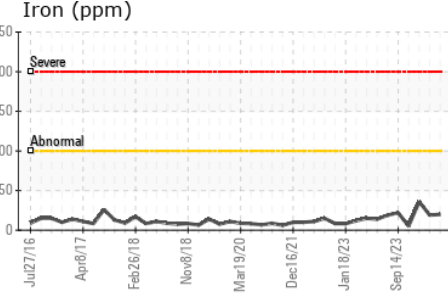
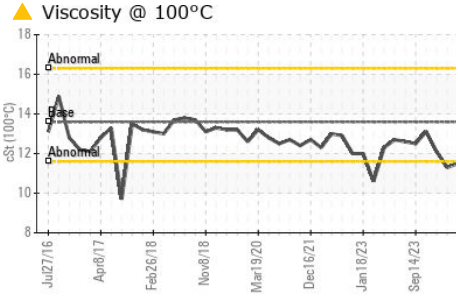
VISUAL

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

FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 100°C	cSt ASTM D7279(m)	13.6	▲ 11.5	▲ 11.3	12.1

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0891761 **Received** : 20 Mar 2024
Lab Number : **02623305** **Tested** : 21 Mar 2024
Unique Number : 5748424 **Diagnosed** : 21 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol, PercentFuel)

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.