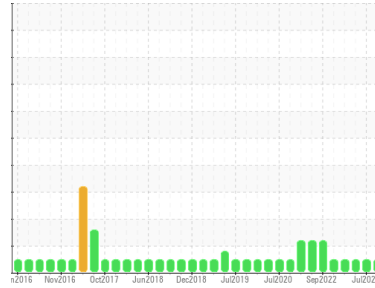




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
[3771]
 Machine Id
NOVA BUS 1504
 Component
Diesel Engine
 Fluid
VALVOLINE 15W40 (--- GAL)

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		WC0828579	WC0805049	WC0780427
Sample Date	Client Info		12 Aug 2023	10 Jul 2023	25 Feb 2023
Machine Age	kms	Client Info	564365	555624	525064
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		Changed	N/A	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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >75	6	6	7
Chromium	ppm	ASTM D5185(m) >5	<1	<1	0
Nickel	ppm	ASTM D5185(m) >4	<1	0	<1
Titanium	ppm	ASTM D5185(m) >2	<1	0	<1
Silver	ppm	ASTM D5185(m) >2	<1	0	0
Aluminum	ppm	ASTM D5185(m) >15	2	2	1
Lead	ppm	ASTM D5185(m) >25	<1	<1	0
Copper	ppm	ASTM D5185(m) >100	10	9	4
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)	30	44	112
Barium	ppm	ASTM D5185(m)	0	0	0
Molybdenum	ppm	ASTM D5185(m)	28	34	13
Manganese	ppm	ASTM D5185(m)	0	0	<1
Magnesium	ppm	ASTM D5185(m)	37	44	86
Calcium	ppm	ASTM D5185(m)	2205	2181	2235
Phosphorus	ppm	ASTM D5185(m)	977	999	1045
Zinc	ppm	ASTM D5185(m)	1081	1109	1170
Sulfur	ppm	ASTM D5185(m)	3039	3076	3015
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	5	4	3
Sodium	ppm	ASTM D5185(m)	4	4	4
Potassium	ppm	ASTM D5185(m) >20	11	8	13
Glycol	%	ASTM D7922*	0.0	0.0	0.0

INFRA-RED

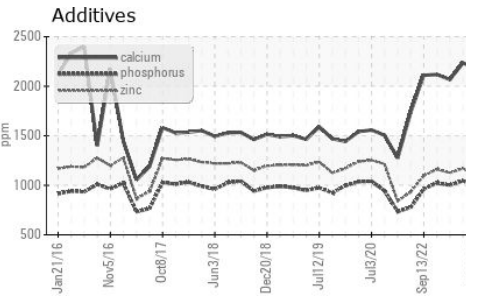
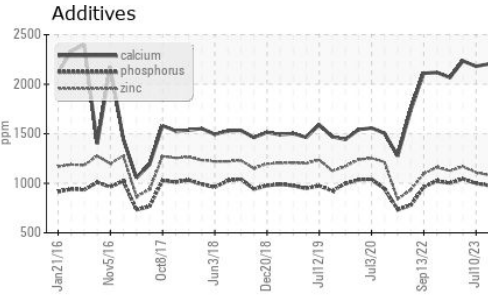
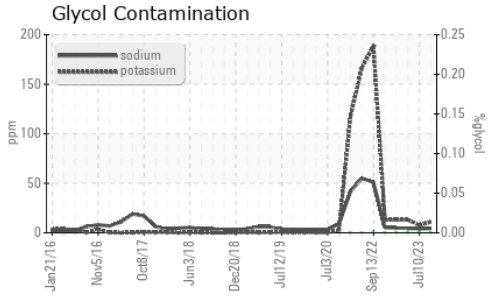
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >6	0.1	0.1	0.1
Nitration	Abs/cm	ASTM D7624* >20	8.5	8.6	8.3
Sulfation	Abs/.1mm	ASTM D7415* >30	20.9	21.1	21.7

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	15.3	16.2	18.0



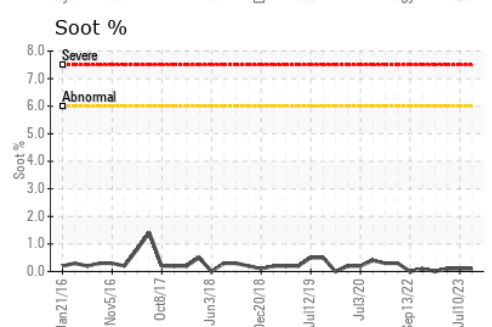
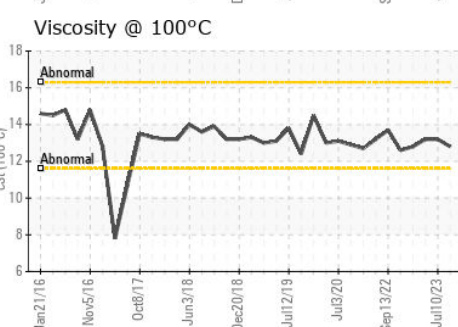
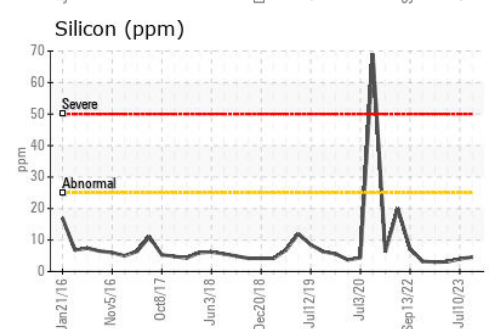
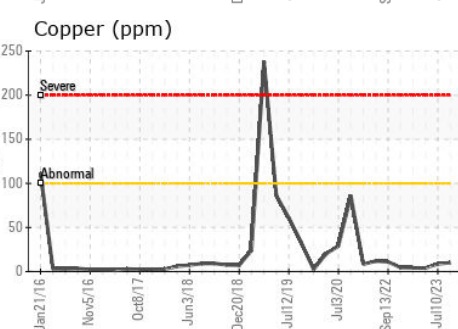
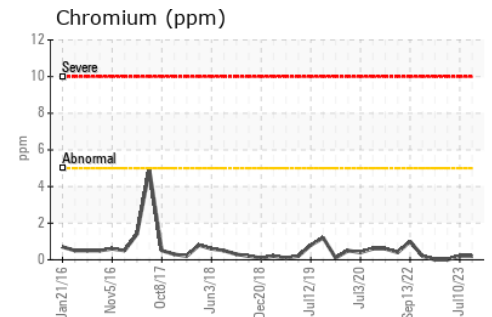
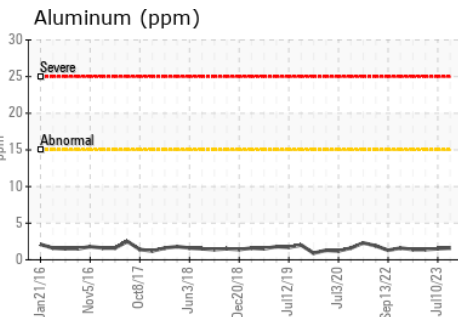
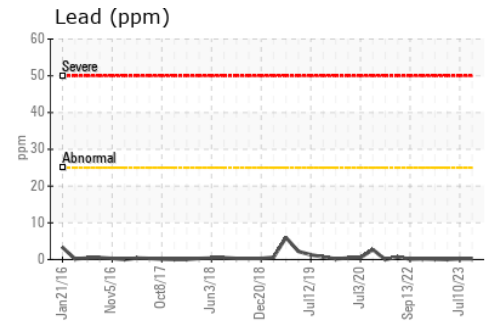
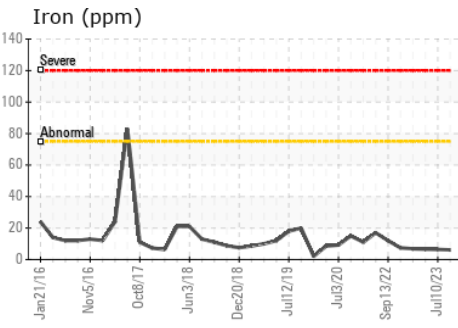
OIL ANALYSIS REPORT



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)	12.8	13.2	13.2

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0828579 **Received** : 24 Aug 2023
Lab Number : 02577976 **Diagnosed** : 24 Aug 2023
Unique Number : 5631036 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol)

MVT Canadian Bus
 133 Welham Road
 Barrie, ON
 CA L4N 8Y3
 Contact: Frank Mastromarco
 frank.mastromarco@mvtransit.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.