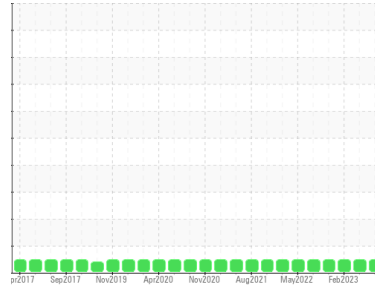




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
NOVA BUS 1640

Component
Natural Gas Engine

Fluid
VALVOLINE PREMIUM BLUE 9200 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		WC0830178	WC0791326	WC0791224
Sample Date	Client Info		30 Aug 2023	01 Jun 2023	27 Feb 2023
Machine Age	kms	Client Info	416707	397555	0
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >50	9	13	9
Chromium	ppm	ASTM D5185(m) >4	<1	1	<1
Nickel	ppm	ASTM D5185(m) >2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	<1	1	3
Silver	ppm	ASTM D5185(m) >3	<1	<1	<1
Aluminum	ppm	ASTM D5185(m) >9	2	2	2
Lead	ppm	ASTM D5185(m) >30	4	7	1
Copper	ppm	ASTM D5185(m) >35	13	15	12
Tin	ppm	ASTM D5185(m) >4	<1	<1	<1
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)	5	4	13
Barium	ppm	ASTM D5185(m)	0	0	0
Molybdenum	ppm	ASTM D5185(m)	52	53	47
Manganese	ppm	ASTM D5185(m)	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	821	808	722
Calcium	ppm	ASTM D5185(m)	1217	1290	1223
Phosphorus	ppm	ASTM D5185(m)	680	719	656
Zinc	ppm	ASTM D5185(m)	855	844	789
Sulfur	ppm	ASTM D5185(m)	1828	1874	1832
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >+100	5	6	4
Sodium	ppm	ASTM D5185(m)	3	5	3
Potassium	ppm	ASTM D5185(m) >20	<1	<1	<1

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	13.5	10.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.4	22.7

FLUID DEGRADATION

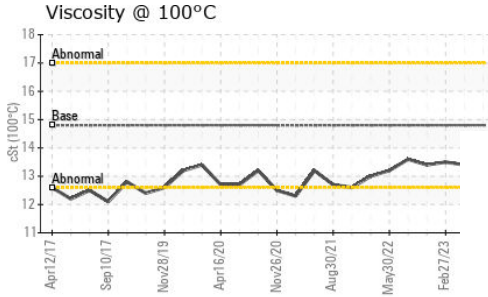
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	24.2	17.7

VISUAL

	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG
Free Water	scalar	Visual*	NEG	NEG	NEG

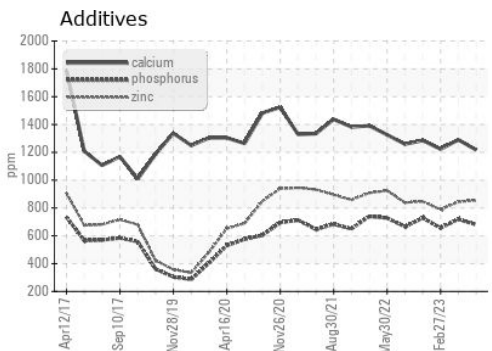
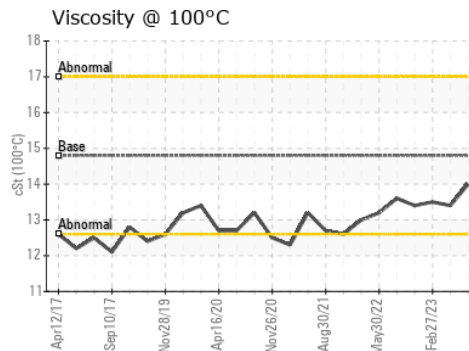
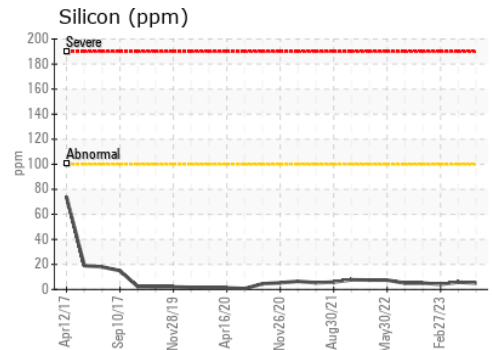
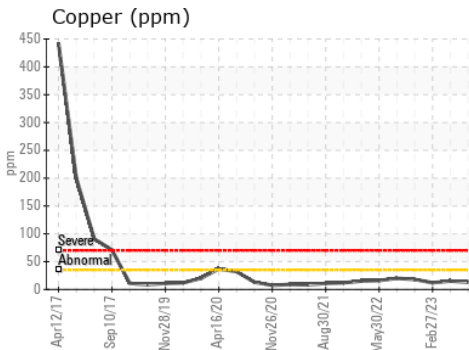
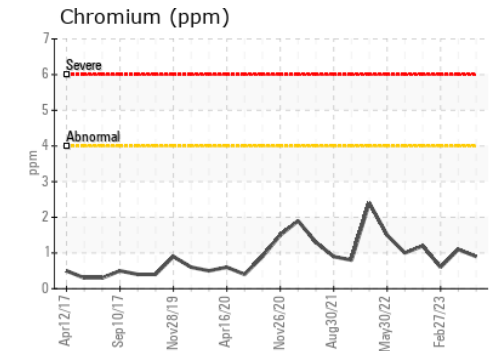
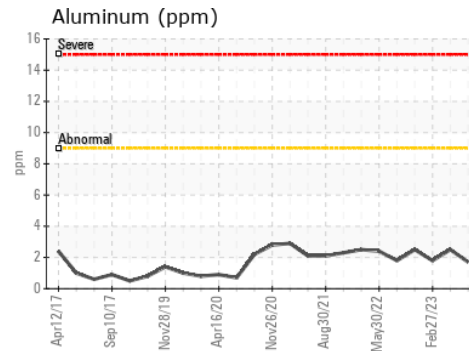
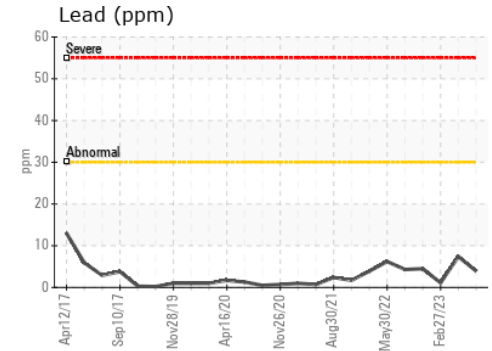
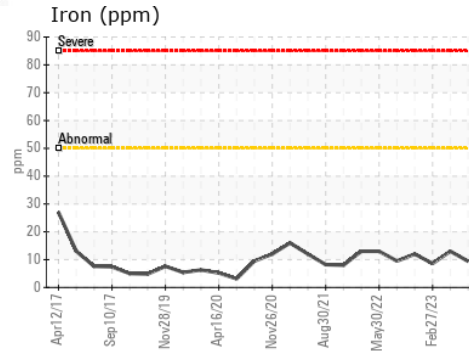


OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	14.0	13.4	13.5

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
 Sample No. : WC0830178
 Lab Number : 02580252
 Unique Number : 5633312
 Test Package : MOB 1

CITY OF HAMILTON
 2200 UPPER JAMES., MOUNTAIN TRANSIT STOREROOM
 MOUNT HOPE, ON
 CA L0R 1W0
 Contact: Jeff Parr
 jeff.parr@hamilton.ca
 T: (905)546-2424
 F: (905)679-4502

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.