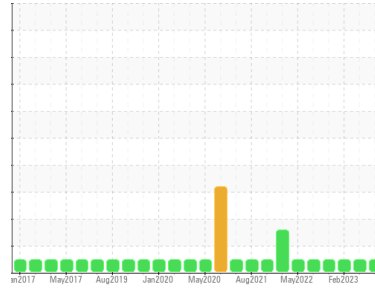




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
NOVA BUS 1622

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	WC0830323	WC0811480	WC0748313
Sample Date	Client Info	22 Aug 2023	26 May 2023	16 Feb 2023
Machine Age	kms	Client Info	0	599560
Oil Age	kms	Client Info	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	20	15	14
Chromium	ppm	ASTM D5185(m)	>4	<1	2	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	1	3
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	2	2	2
Lead	ppm	ASTM D5185(m)	>30	2	12	7
Copper	ppm	ASTM D5185(m)	>35	4	1	2
Tin	ppm	ASTM D5185(m)	>4	2	<1	<1
Antimony	ppm	ASTM D5185(m)		0	<1	<1
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)		15	9	10
Barium	ppm	ASTM D5185(m)		3	0	0
Molybdenum	ppm	ASTM D5185(m)		49	54	51
Manganese	ppm	ASTM D5185(m)		5	<1	<1
Magnesium	ppm	ASTM D5185(m)		779	848	802
Calcium	ppm	ASTM D5185(m)		1193	1320	1338
Phosphorus	ppm	ASTM D5185(m)		673	719	714
Zinc	ppm	ASTM D5185(m)		808	874	860
Sulfur	ppm	ASTM D5185(m)		1877	1944	1956
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>+100	26	5	5
Sodium	ppm	ASTM D5185(m)		20	4	6
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	10.7	12.8	7.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.1	25.6	19.9

FLUID DEGRADATION

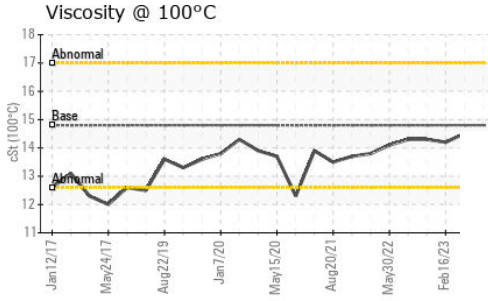
method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.8	23.6	12.9

VISUAL

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

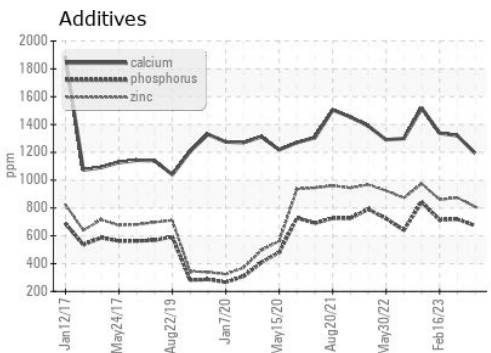
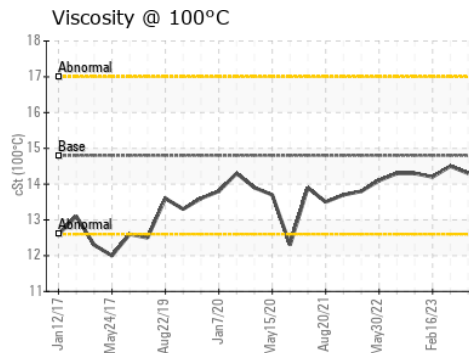
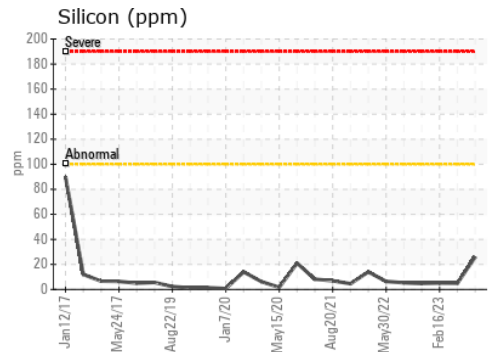
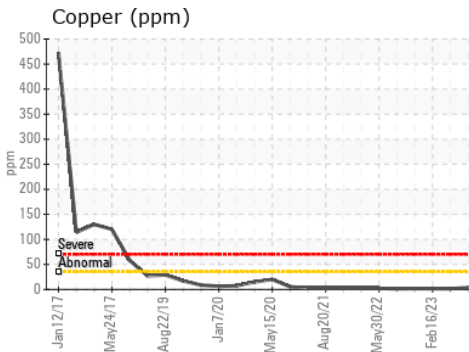
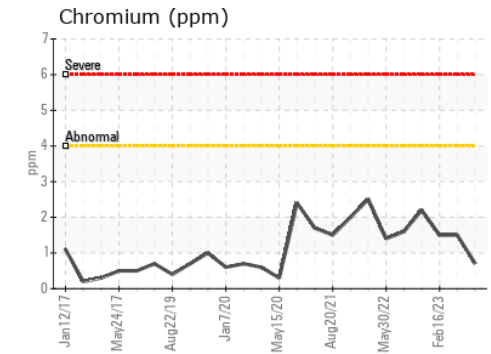
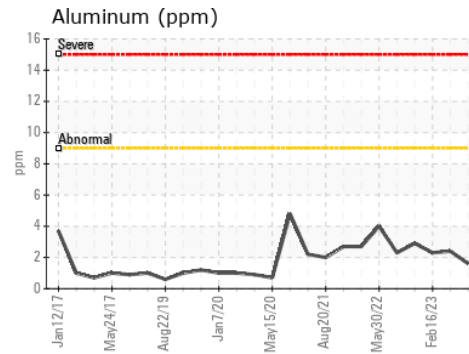
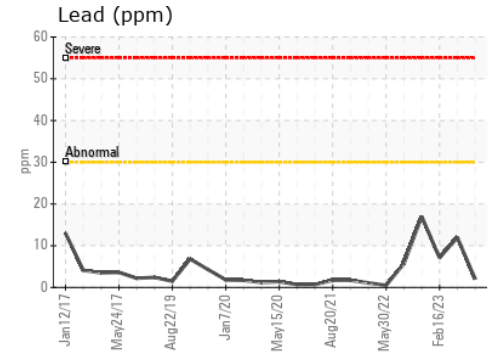
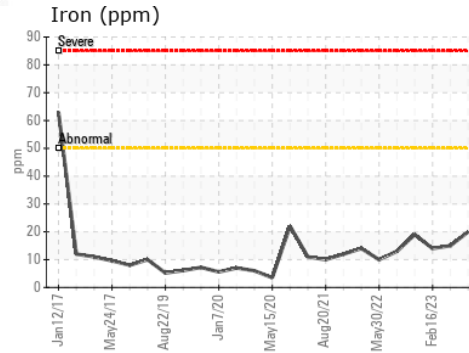


OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	14.3	14.5	14.2

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0830323
Lab Number : 02579086
Unique Number : 5632146
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.