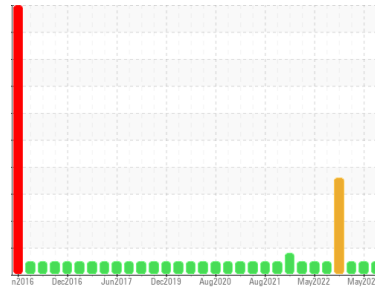




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
[1485911]
 Machine Id
NOVA BUS 1505
 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	WC0830215	WC0811379	WC0791275	
Sample Date	Client Info	19 Aug 2023	09 May 2023	06 Apr 2023	
Machine Age	kms	Client Info	470276	0	450290
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A	
Sample Status		NORMAL	NORMAL	NORMAL	

CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	---	---	0.0

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >50	15	11	17
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	5
Silver	ppm	ASTM D5185(m) >3	0	0	0
Aluminum	ppm	ASTM D5185(m) >9	1	2	2
Lead	ppm	ASTM D5185(m) >30	2	<1	<1
Copper	ppm	ASTM D5185(m) >35	1	1	4
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)	8	19	29
Barium	ppm	ASTM D5185(m)	<1	1	15
Molybdenum	ppm	ASTM D5185(m)	54	49	47
Manganese	ppm	ASTM D5185(m)	<1	1	6
Magnesium	ppm	ASTM D5185(m)	837	803	744
Calcium	ppm	ASTM D5185(m)	1252	1249	1170
Phosphorus	ppm	ASTM D5185(m)	671	737	746
Zinc	ppm	ASTM D5185(m)	874	820	775
Sulfur	ppm	ASTM D5185(m)	1911	1981	1953
Lithium	ppm	ASTM D5185(m)	<1	<1	3

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >+100	9	12	30
Sodium	ppm	ASTM D5185(m)	5	5	32
Potassium	ppm	ASTM D5185(m) >20	<1	<1	0

INFRA-RED

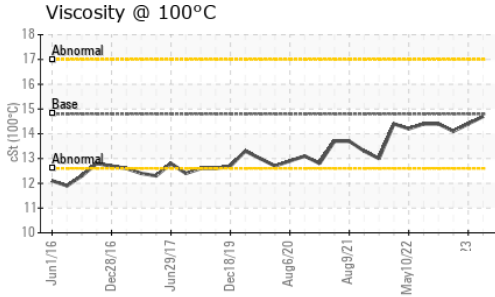
method	limit/base	current	history1	history2		
Soot %	%	ASTM D7844*	0	0	0	
Nitration	Abs/cm	ASTM D7624*	>20	12.9	10.1	5.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.1	20.4	18.9

FLUID DEGRADATION

method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.9	18.2	11.2

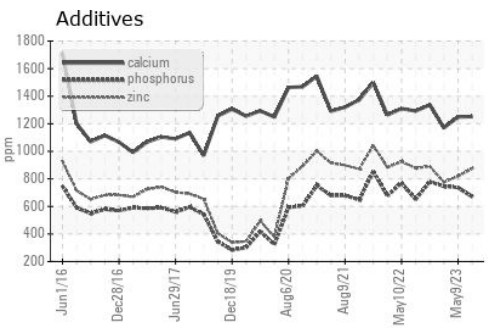
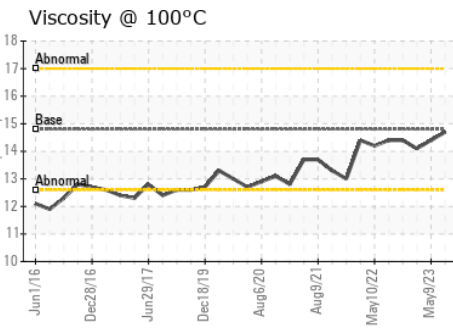
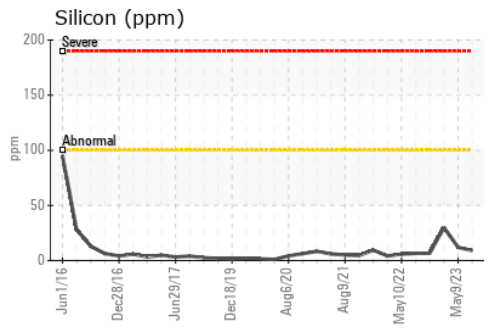
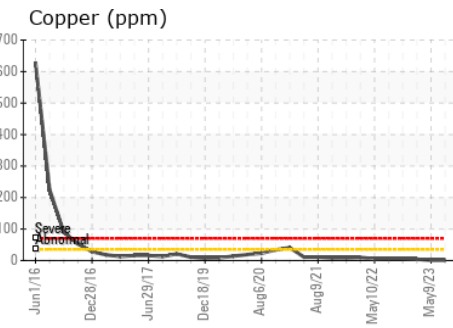
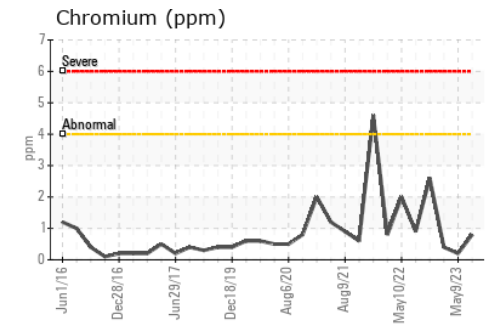
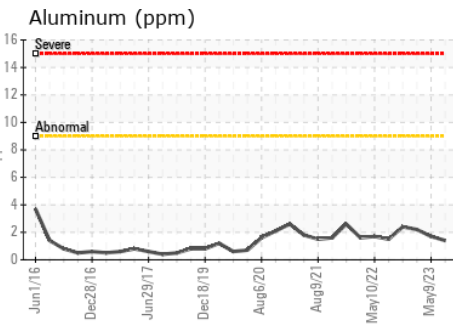
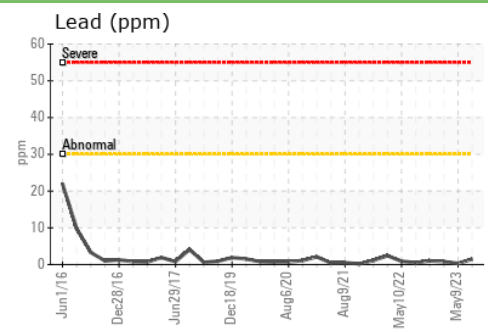
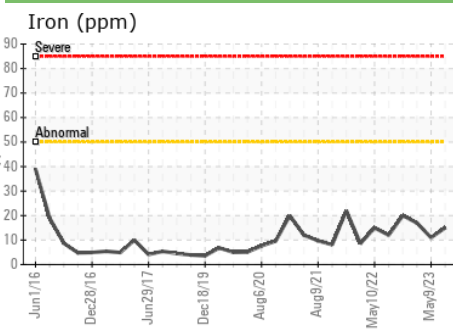


OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.8	14.7	14.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0830215 **Received** : 22 Aug 2023
Lab Number : 02577389 **Diagnosed** : 22 Aug 2023
Unique Number : 5630449 **Diagnostician** : Wes Davis
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.