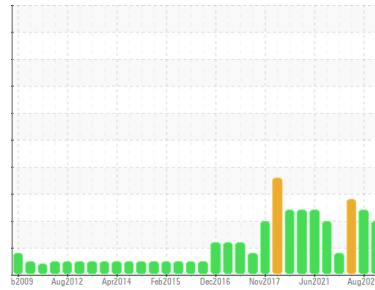




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
NOVA BUS 60043
 Component
Rear Diesel Engine
 Fluid
VALVOLINE 15W40 (24 LTR)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. 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 high 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		WC0887269	WC0809088	WC0770717
Sample Date	Client Info		03 Jan 2024	15 Aug 2023	01 Feb 2023
Machine Age	kms	Client Info	942609	920915	899248
Oil Age	kms	Client Info	10000	10000	10000
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			SEVERE	SEVERE	ABNORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>75	36	32	33
Chromium	ppm	ASTM D5185(m)	>5	1	2	1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	3	3	3
Lead	ppm	ASTM D5185(m)	>25	1	2	2
Copper	ppm	ASTM D5185(m)	>100	<1	3	3
Tin	ppm	ASTM D5185(m)	>4	0	<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)	39	4	3	36
Barium	ppm	ASTM D5185(m)	1	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	49	60	62	59
Manganese	ppm	ASTM D5185(m)	1	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	616	908	982	553
Calcium	ppm	ASTM D5185(m)	1554	991	1079	1614
Phosphorus	ppm	ASTM D5185(m)	899	908	1025	1071
Zinc	ppm	ASTM D5185(m)	1069	1114	1192	1171
Sulfur	ppm	ASTM D5185(m)	2624	2422	2408	2662
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

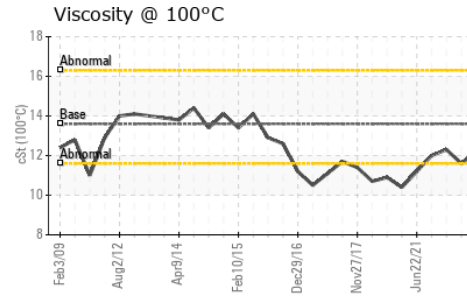
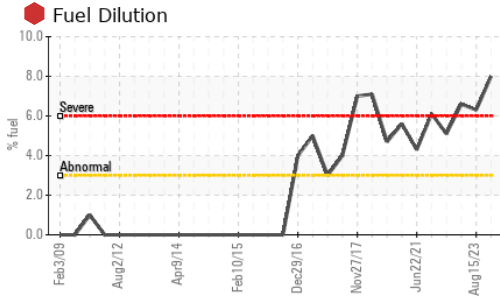
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	6	7	▲ 28
Sodium	ppm	ASTM D5185(m)		78	25	22
Potassium	ppm	ASTM D5185(m)	>20	2	1	2
Fuel	%	ASTM D7593*	>3.0	● 8	● 6.3	▲ 6.6

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	0.6	0.5	0.3
Nitration	Abs/cm	ASTM D7624*	>20	13.3	12.9	11.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.2	27.1	24.6



OIL ANALYSIS REPORT

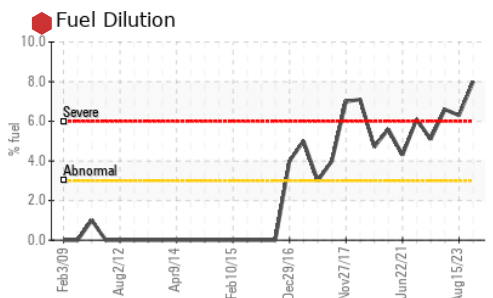
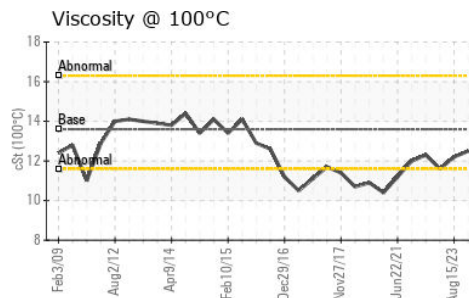
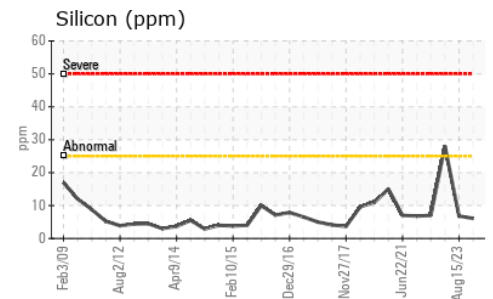
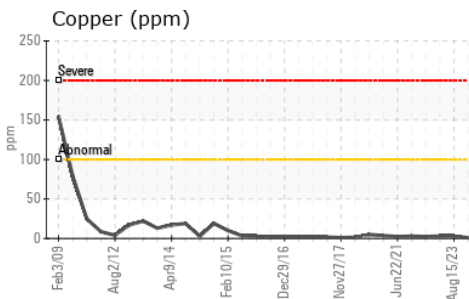
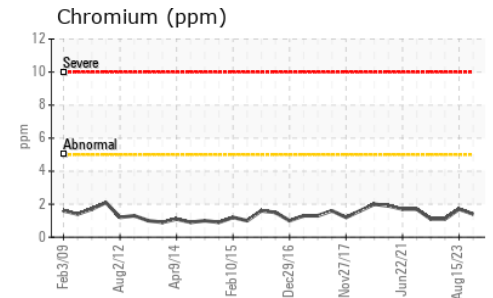
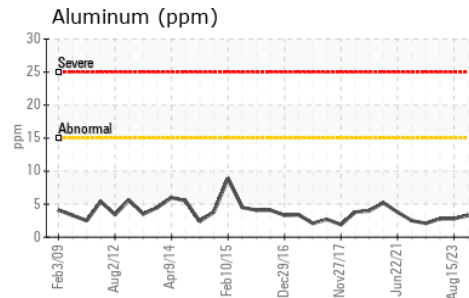
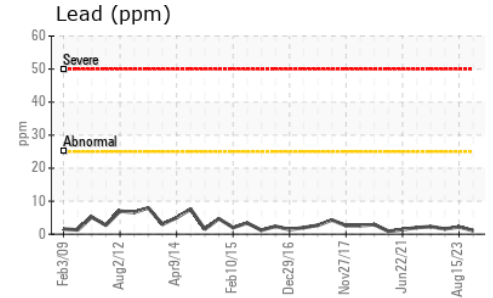
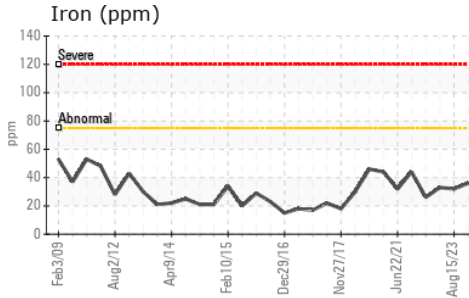


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	24.0	27.8	22.1

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	12.5	▲ 12.2	▲ 11.6

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0887269
Lab Number : 02607690
Unique Number : 5708776
Test Package : MOB 1 (Additional Tests: PercentFuel)

CITY OF PETERBOROUGH
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 PETERBOROUGH, ON
 CA K9J 8N3
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 T: (705)742-7777
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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.