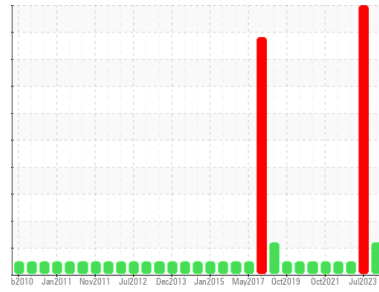




OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id
NOVA BUS 60054
 Component
Rear Diesel Engine
 Fluid
VALVOLINE 15W40 (24 LTR)

DIAGNOSIS

Recommendation

Check for low coolant level. 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

Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative. There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service (see recommendation).

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			WC0911686	WC0809087	WC0734919
Sample Date	Client Info			09 Apr 2024	19 Jul 2023	28 Dec 2022
Machine Age	kms	Client Info		716788	695580	672662
Oil Age	kms	Client Info		10000	10000	10000
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				ATTENTION	SEVERE	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>3.0		<1.0	<1.0	<1.0
Water	WC Method	>0.2		NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	47	▲ 78	27
Chromium	ppm	ASTM D5185(m)	>5	2	3	2
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>15	4	3	2
Lead	ppm	ASTM D5185(m)	>25	0	1	<1
Copper	ppm	ASTM D5185(m)	>100	2	5	1
Tin	ppm	ASTM D5185(m)	>4	0	<1	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

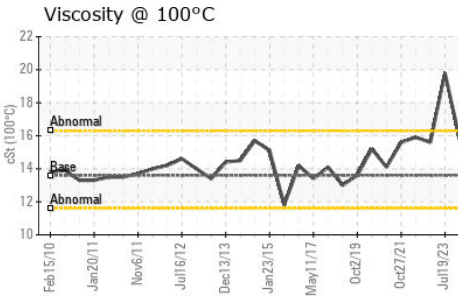
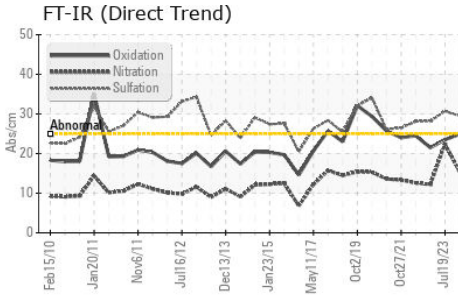
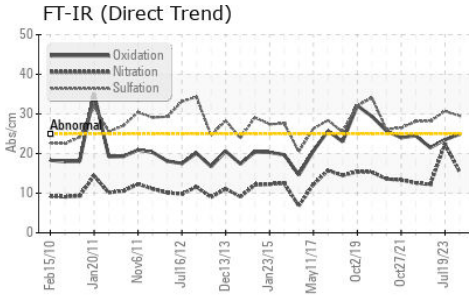
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	39	5	107	3
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	49	79	196	75
Manganese	ppm	ASTM D5185(m)	1	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	616	1211	1130	1212
Calcium	ppm	ASTM D5185(m)	1554	1295	1170	1347
Phosphorus	ppm	ASTM D5185(m)	899	1185	1204	1272
Zinc	ppm	ASTM D5185(m)	1069	1440	1365	1451
Sulfur	ppm	ASTM D5185(m)	2624	2554	2797	2769
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8	69	5
Sodium	ppm	ASTM D5185(m)		● 216	● 3055	37
Potassium	ppm	ASTM D5185(m)	>20	3	▲ 59	1
Glycol	%	ASTM D7922*		0.0	▲ >.70	NEG

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	2.4	1.9	0.9
Nitration	Abs/cm	ASTM D7624*	>20	15.4	▲ 22.4	12.2
Sulfation	Abs./1mm	ASTM D7415*	>30	29.5	30.7	28.2



OIL ANALYSIS REPORT

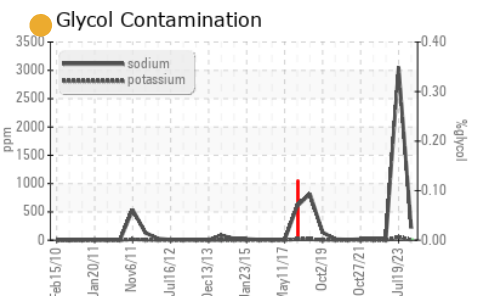
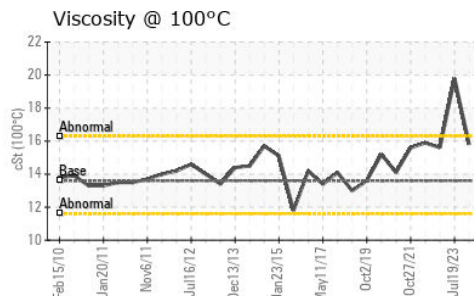
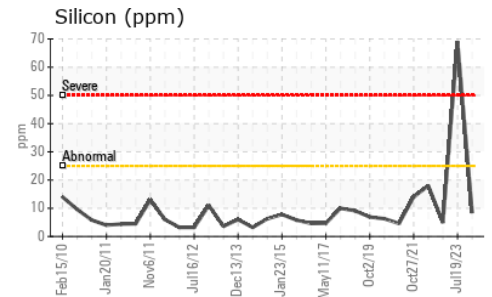
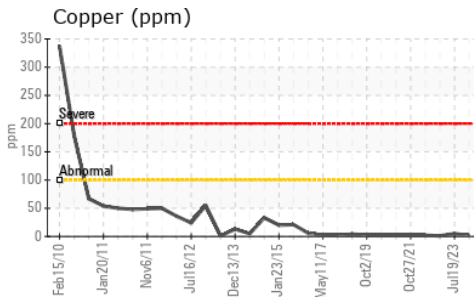
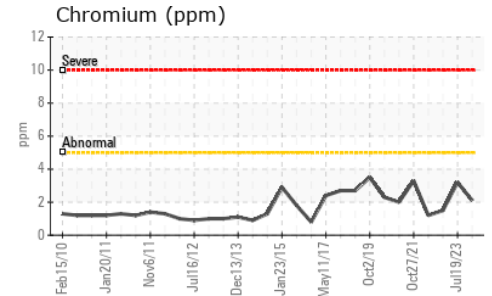
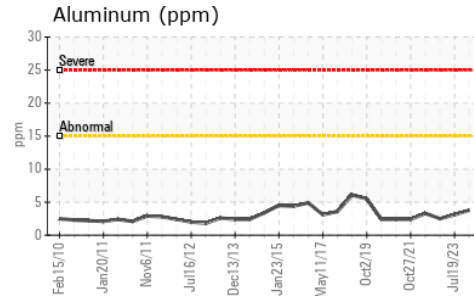
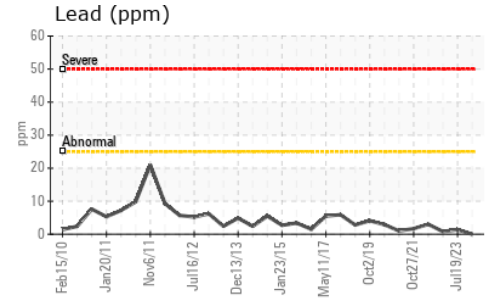
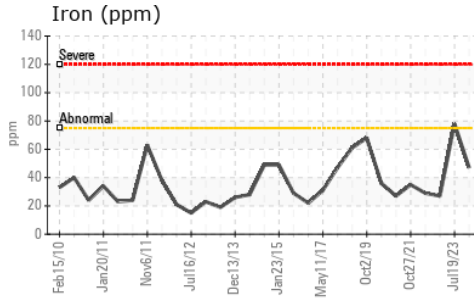


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	24.9	23.5	21.5

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	15.8	▲ 19.8	15.6

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0911686
Lab Number : 02628768
Unique Number : 5761900
Test Package : MOB 1

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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.