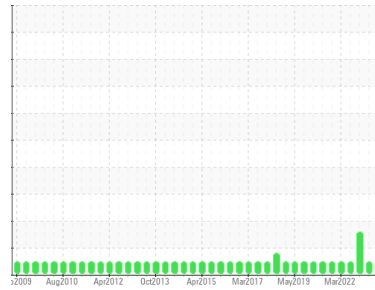




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
NOVA BUS 2005 EQ60027
 Component
Rear Diesel Engine
 Fluid
VALVOLINE 15W40 (24 LTR)

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		WC0911689	WC0809090	WC0770741
Sample Date	Client Info		25 Mar 2024	16 Aug 2023	06 Mar 2023
Machine Age	kms	Client Info	1030461	1008063	985668
Oil Age	kms	Client Info	10000	10000	10000
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	ABNORMAL

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
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>75	19	21	17
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<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	1	1	1
Lead	ppm	ASTM D5185(m)	>25	3	7	3
Copper	ppm	ASTM D5185(m)	>100	2	5	3
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	<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)	39	2	9	4
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	49	64	58	65
Manganese	ppm	ASTM D5185(m)	1	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	616	1060	1038	1054
Calcium	ppm	ASTM D5185(m)	1554	1133	1198	1232
Phosphorus	ppm	ASTM D5185(m)	899	1061	1150	1163
Zinc	ppm	ASTM D5185(m)	1069	1291	1307	1313
Sulfur	ppm	ASTM D5185(m)	2624	2596	2729	2744
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	3	5	▲ 26
Sodium	ppm	ASTM D5185(m)		12	10	11
Potassium	ppm	ASTM D5185(m)	>20	2	<1	<1

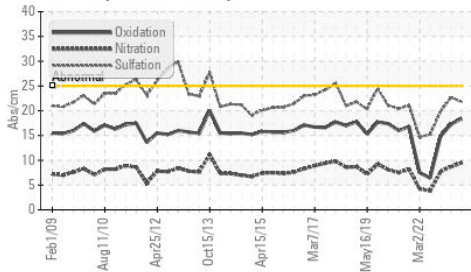
INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	0.4	0.3	0.2
Nitration	Abs/cm	ASTM D7624*	>20	9.5	8.7	7.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.8	22.7	19.9

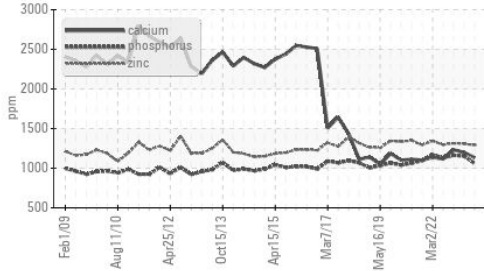


OIL ANALYSIS REPORT

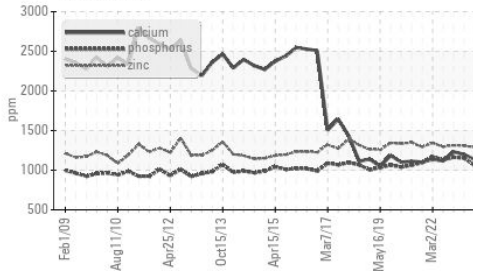
FT-IR (Direct Trend)



Additives



Additives



FLUID DEGRADATION

method	limit/base	current	history1	history2
Abs./1mm	ASTM D7414*	>25	17.3	14.9

VISUAL

method	limit/base	current	history1	history2
scalar	Visual*	>0.2	NEG	NEG

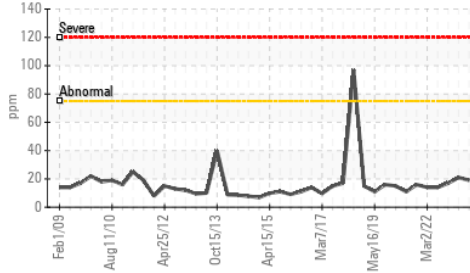
Free Water	scalar	Visual*	NEG	NEG
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FLUID PROPERTIES

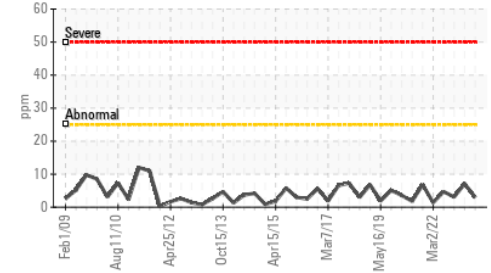
method	limit/base	current	history1	history2
cSt	ASTM D7279(m)	13.6	13.6	12.9

GRAPHS

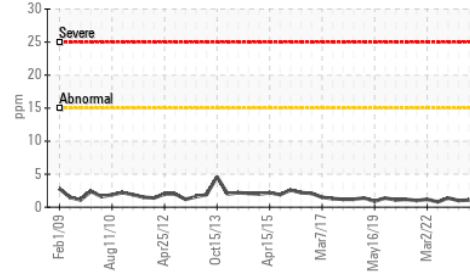
Iron (ppm)



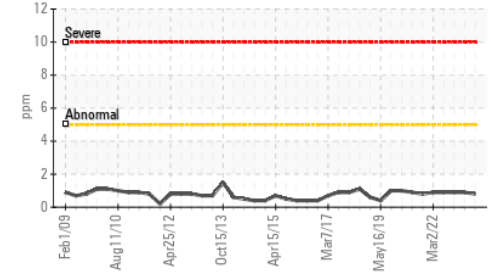
Lead (ppm)



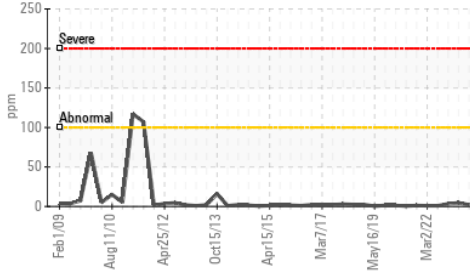
Aluminum (ppm)



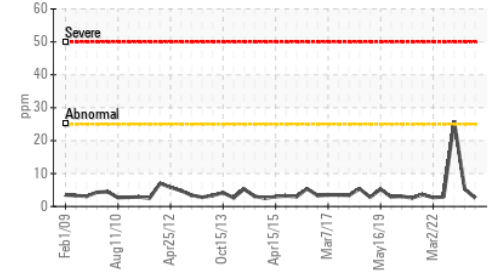
Chromium (ppm)



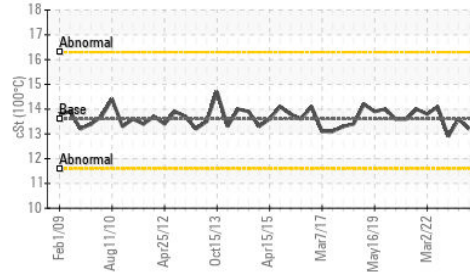
Copper (ppm)



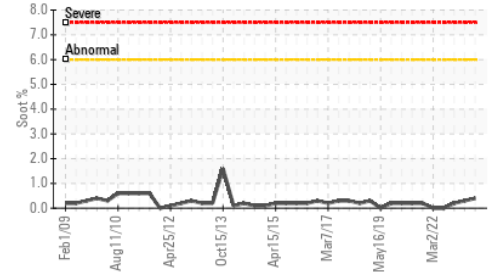
Silicon (ppm)



Viscosity @ 100°C



Soot %



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0911689
Lab Number : 02626914
Unique Number : 5760046
Test Package : MOB 1

Received : 05 Apr 2024
Tested : 05 Apr 2024
Diagnosed : 05 Apr 2024 - Wes Davis

CITY OF PETERBOROUGH
 791 WEBBER AVENUE., MUNICIPAL OPERATIONS CENTRE
 PETERBOROUGH, ON
 CA K9J 8N3

Contact: Frank Curran
 fcurran@peterborough.ca
 T: (705)742-7777
 F: (705)743-3223

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.