



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
NOVA BUS 176
 Component
Rear Diesel Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (24 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0866582	WC0889193	WC0866438
Sample Date		Client Info		14 May 2024	23 Jan 2024	28 Nov 2023
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		9489	9437	9539
Filter Age	kms	Client Info		9489	9437	9539
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	10	15	12
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	1	2	1
Lead	ppm	ASTM D5185(m)	>40	0	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

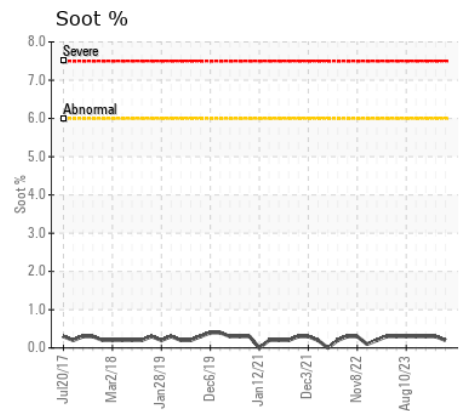
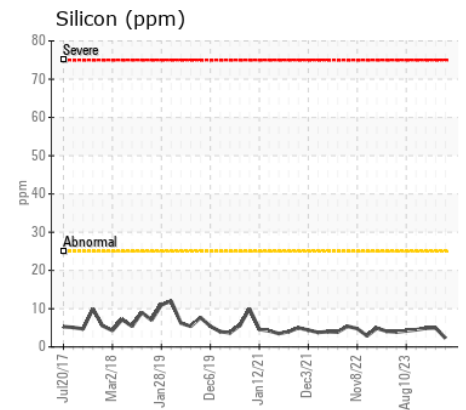
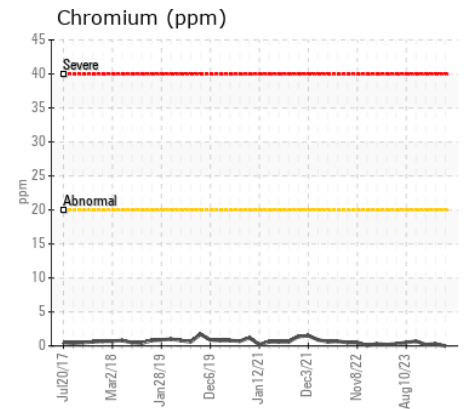
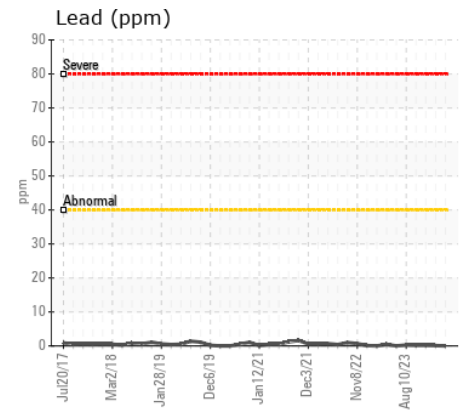
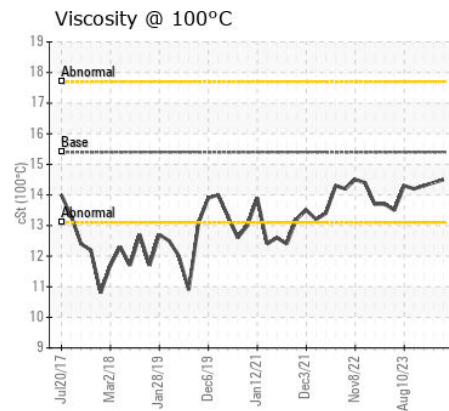
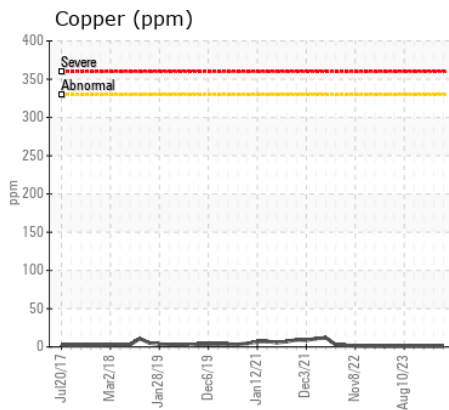
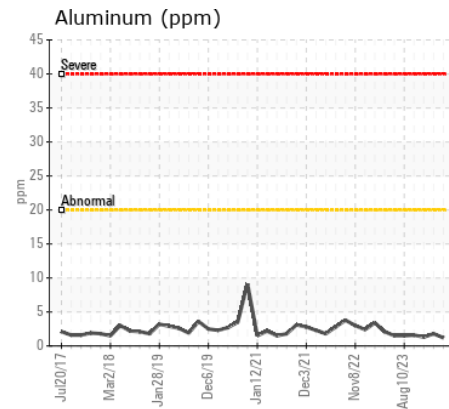
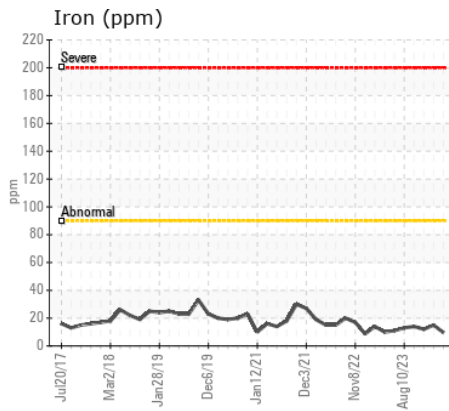
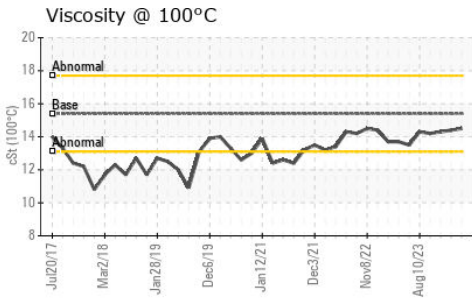
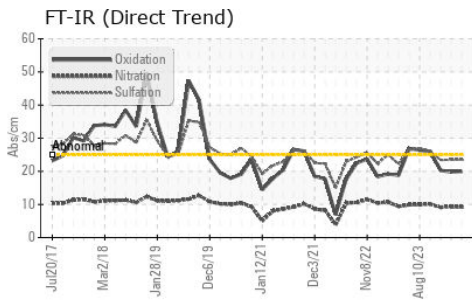
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	5	5
Potassium	ppm	ASTM D5185(m)	>20	6	6	5
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
Soot %	%	ASTM D7844*	>6	0.2	0.3	0.3
Nitration	Abs/cm	ASTM D7624*	>20	9.2	9.3	9.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.5	23.5	23.4
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>192	2	2	3
Boron	ppm	ASTM D5185(m)		93	93	94
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		0	<1	<1
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		13	14	16
Calcium	ppm	ASTM D5185(m)	3780	2278	2307	2222
Phosphorus	ppm	ASTM D5185(m)	1370	969	977	949
Zinc	ppm	ASTM D5185(m)	1500	1200	1209	1163
Sulfur	ppm	ASTM D5185(m)	3800	2855	3073	2837
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.0	19.8	20.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.5	14.4	14.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0866582
Lab Number : 02636551
Unique Number : 5785713
Test Package : MOB 1

Received : 21 May 2024
Tested : 21 May 2024
Diagnosed : 21 May 2024 - Wes Davis

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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.