

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

Machine Id NOVA BUS 165 Component Rear Diesel Engine Fluid ESSO XD-3 EXTRA 15W40 (--- GAL)

RECOMMENDATION

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

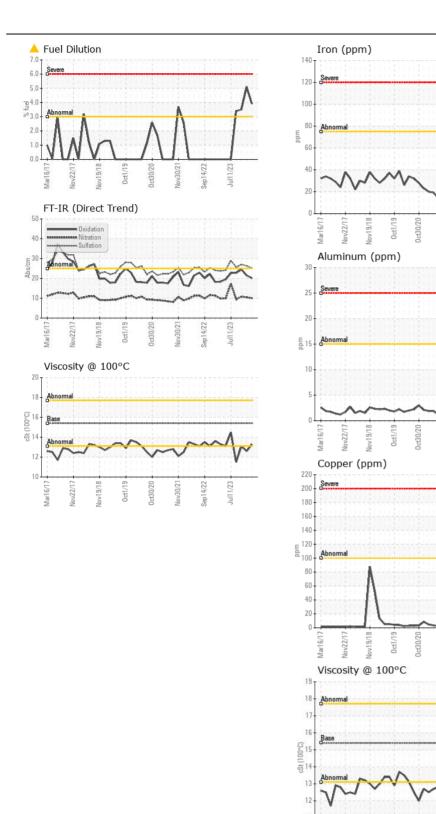
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

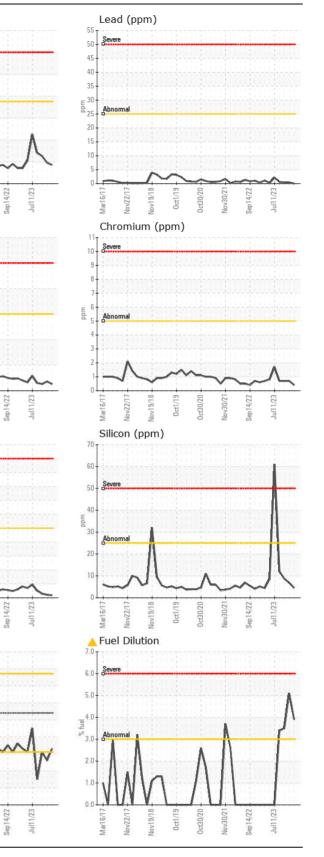
FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0889003	WC0889159	WC0866592
Sample Date		Client Info		08 Apr 2024	30 Jan 2024	08 Dec 2023
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		9142	9421	8838
Filter Age	kms	Client Info		9142	9421	8838
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
				47	10	05
Iron	ppm	ASTM D5185(m)	>75	17	19	25
Chromium Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1 0
	ppm	ASTM D5185(m) ASTM D5185(m)	>4	0	<1	0
Titanium Silver	ppm	(/	>2	0	0	
	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>15	1	2	1
Lead	ppm	ASTM D5185(m)	>25	0	<1	<1
Copper	ppm	ASTM D5185(m)	>100	4	4	6
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	4	7	9
Potassium	ppm	ASTM D5185(m)	>20	8	10	13
Fuel	%	ASTM D7593*	>3.0	A 3.9	5 .1	3 .5
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	0.0
Soot %	%	ASTM D7844*	>6	1	1.1	1.1
Nitration	Abs/cm	ASTM D7624*	>20	10.0	10.4	10.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.2	26.3	27.0
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>192	11	21	44
Boron	ppm	ASTM D5185(m)		76	65	63
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		<1	2	6
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		17	27	50
Calcium	ppm	ASTM D5185(m)	3780	2206	2126	2102
Phosphorus	ppm	ASTM D5185(m)	1370	933	921	888
Zinc	ppm	ASTM D5185(m)	1500	1137	1100	1102
Sulfur	ppm	ASTM D5185(m)	3800	2733	2891	2805
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.1	21.5	24.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.3	▲ 12.6	13.1

Contact/Location: Sean Malcolm - CITTHU Page 1 of 2





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : WC0889003 Received : 15 Apr 2024 Lab Number : 02628776 Tested : 16 Apr 2024 ISO 17025:2017 Accredited : 16 Apr 2024 - Wes Davis Unique Number : 5761908 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: PercentFuel) 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.

Nov22/1

Jov19/18

lov30/2

10

Mar16/17

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Contact/Location: Sean Malcolm - CITTHU Page 2 of 2