

WEAR NORMAL CONTAMINATION MARGINAL FLUID CONDITION NORMAL

Machine Id NOVA BUS 160 Component Rear Diesel Engine Fluid ESSO XD-3 EXTRA 15W40 (24 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

WEAR	

All component wear rates are normal.

CONTAMINATION

Light fuel dilution occurring. No other contaminants were detected in the oil.

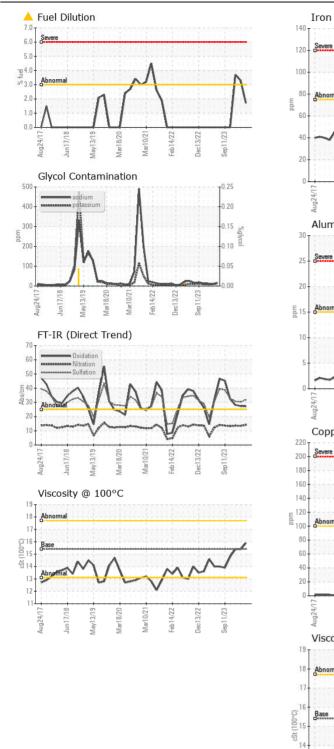
.....

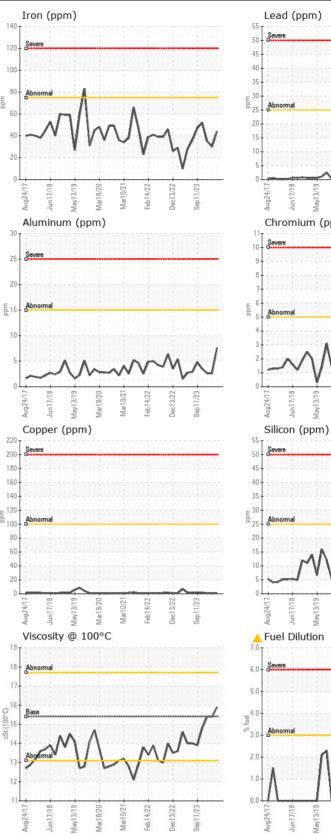
FLUID CONDITION

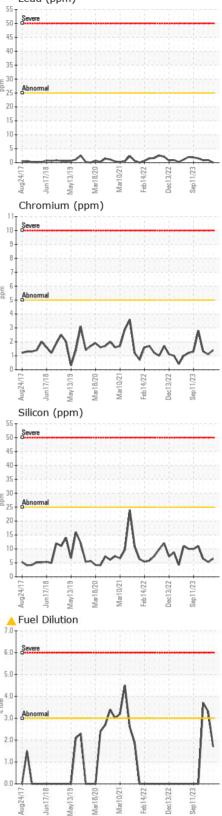
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0889027	WC0889133	WC0889177
Sample Date		Client Info		06 May 2024	15 Feb 2024	27 Dec 2023
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		9029	9083	10139
Filter Age	kms	Client Info		9029	9083	10139
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				MARGINAL	ABNORMAL	ABNORMAL
						05
Iron	ppm	ASTM D5185(m)	>75	44	30	35
Chromium	ppm	ASTM D5185(m)	>5	1	1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>15	8	3	3
Lead	ppm	ASTM D5185(m)	>25	0	<1	<1
Copper	ppm	ASTM D5185(m)	>100	<1	<1	1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	6	5	6
Potassium	ppm	ASTM D5185(m)	>20	10	9	8
Fuel	%	ASTM D7593*	>3.0	1 .7	A 3.3	3 .7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>6	1.9	1.7	1.6
Nitration	Abs/cm	ASTM D7624*	>20	14.1	13.5	13.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	31.8	30.3	30.7
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>192	15	11	12
Boron	ppm	ASTM D5185(m)		66	64	69
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		<1	1	<1
Manganese	ppm	ASTM D5185(m)		<1	0	0
Magnesium	ppm	ASTM D5185(m)		20	22	16
Calcium	ppm	ASTM D5185(m)	3780	2590	2459	2419
Phosphorus	ppm	ASTM D5185(m)	1370	1066	1013	1002
Zinc	ppm	ASTM D5185(m)	1500	1313	1222	1221
Sulfur	ppm	ASTM D5185(m)	3800	2947	2939	2979
Oxidation	Abs/.1mm	ASTM D7414*	>25	27.2	27.4	28.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	15.9	15.4	15.4
		. /				

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







CITY OF THUNDER BAY Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. : WC0889027 Received : 13 May 2024 Lab Number : 02634901 Tested : 14 May 2024 ISO 17025:2017 Accredited Laboratory : 14 May 2024 - Kevin Marson Unique Number : 5776054 Diagnosed Test Package : MOB 1 (Additional Tests: Glycol, 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.

AUTO MAINTENANCE STORES, 570 FORT WILLIAM ROAD THUNDER BAY, ON CA P7B 2Z8 Contact: Sean Malcolm sean.malcolm@thunderbay.ca T: (807)684-2716 F: (807)344-0237

Report Id: CITTHU [WCAMIS] 02634901 (Generated: 05/14/2024 13:52:43) Rev: 1

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