



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**NOVA BUS 168**  
 Component  
**Rear Transmission (Auto)**  
 Fluid  
**CASTROL TRANSYND (24 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0866625</b>	WC0889074	WC0889128
Sample Date		Client Info		<b>28 May 2024</b>	26 Mar 2024	15 Feb 2024
Machine Age	kms	Client Info		<b>0</b>	0	0
Oil Age	kms	Client Info		<b>28185</b>	18961	9254
Filter Age	kms	Client Info		<b>28185</b>	18961	9254
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184*	>105	<b>0</b>	0	---
Iron	ppm	ASTM D5185(m)	>230	<b>61</b>	54	46
Chromium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>65	<b>22</b>	20	18
Lead	ppm	ASTM D5185(m)	>55	<b>2</b>	1	2
Copper	ppm	ASTM D5185(m)	>85	<b>7</b>	6	6
Tin	ppm	ASTM D5185(m)	>5	<b>2</b>	2	2
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

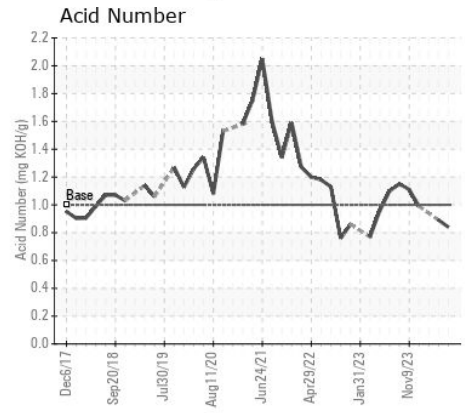
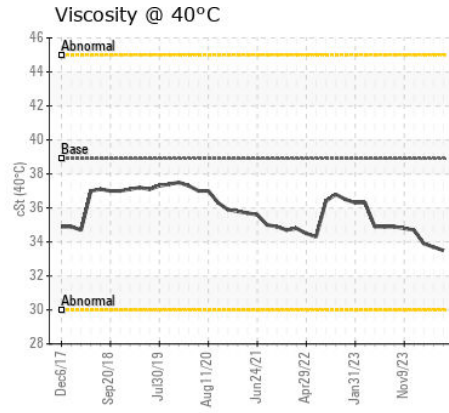
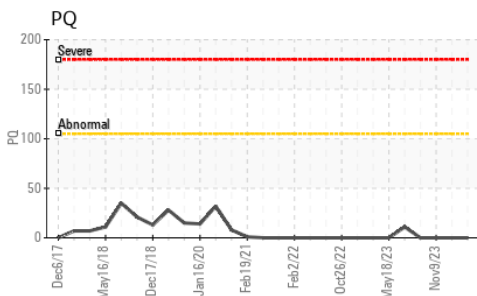
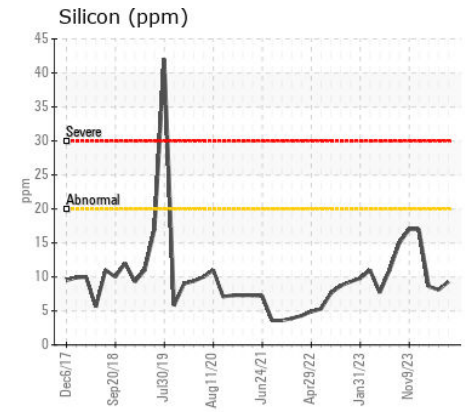
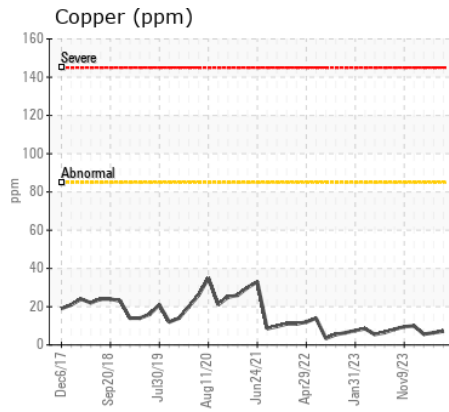
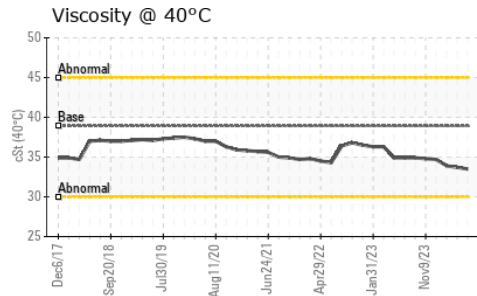
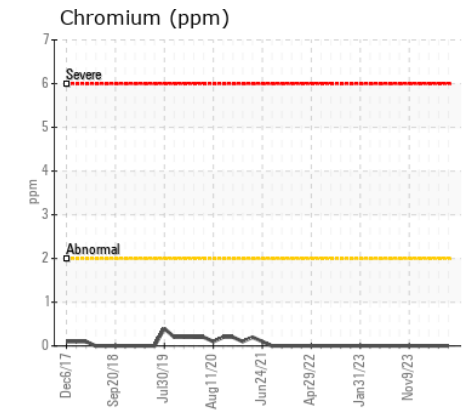
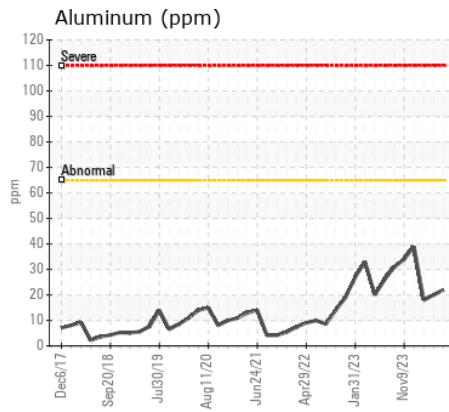
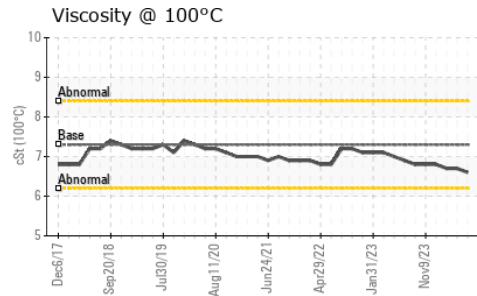
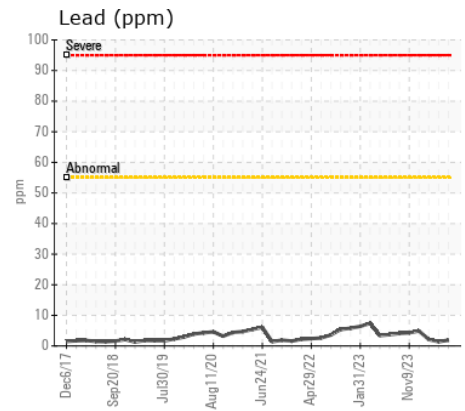
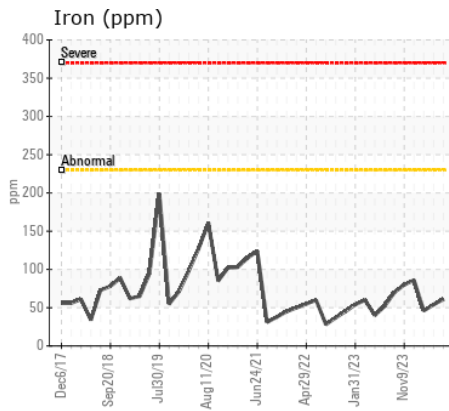
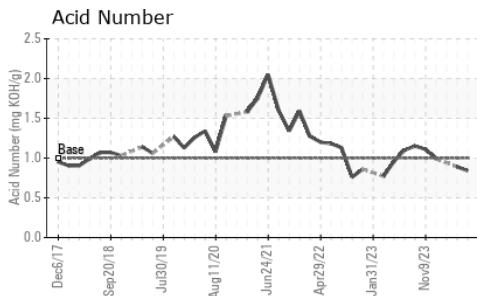
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>20	<b>9</b>	8	9
Potassium	ppm	ASTM D5185(m)	>20	<b>5</b>	2	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

Sodium	ppm	ASTM D5185(m)		<b>7</b>	5	5
Boron	ppm	ASTM D5185(m)	150	<b>73</b>	69	68
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>3</b>	3	4
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>2</b>	2	1
Calcium	ppm	ASTM D5185(m)	40	<b>121</b>	122	126
Phosphorus	ppm	ASTM D5185(m)	320	<b>221</b>	225	222
Zinc	ppm	ASTM D5185(m)	5	<b>6</b>	6	7
Sulfur	ppm	ASTM D5185(m)	1050	<b>1257</b>	1251	1337
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	<b>0.84</b>	0.89	---
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	<b>33.5</b>	33.7	33.9
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	<b>6.6</b>	6.7	6.7
Viscosity Index (VI)	Scale	ASTM D2270*	168	<b>156</b>	160	158



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0866625 **Received** : 03 Jun 2024  
**Lab Number** : 02639438 **Tested** : 03 Jun 2024  
**Unique Number** : 5788600 **Diagnosed** : 03 Jun 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV100, PQ, VI )

**CITY OF THUNDER BAY**  
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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.