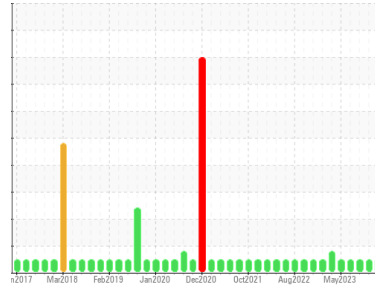




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



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

## 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 fluid.

### Fluid Condition

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

## SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	<b>WC0866613</b>	WC0866631	WC0816390	
Sample Date	Client Info	<b>18 Dec 2023</b>	09 Nov 2023	14 Sep 2023	
Machine Age	kms	Client Info	0	0	
Oil Age	kms	Client Info	<b>47295</b>	37921	28971
Oil Changed	Client Info	<b>Not Changed</b>	Not Changed	Not Changed	
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL	

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m) >230	<b>86</b>	80	70
Chromium	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m) >2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m) >5	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m) >65	<b>39</b>	34	31
Lead	ppm	ASTM D5185(m) >55	<b>5</b>	4	4
Copper	ppm	ASTM D5185(m) >85	<b>10</b>	10	8
Tin	ppm	ASTM D5185(m) >5	<b>5</b>	5	5
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m) 150	<b>65</b>	69	67
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 0	<b>3</b>	2	2
Calcium	ppm	ASTM D5185(m) 40	<b>93</b>	93	94
Phosphorus	ppm	ASTM D5185(m) 320	<b>236</b>	237	236
Zinc	ppm	ASTM D5185(m) 5	<b>8</b>	8	8
Sulfur	ppm	ASTM D5185(m) 1050	<b>1048</b>	1029	1075
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

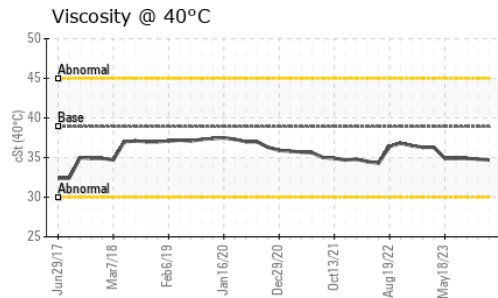
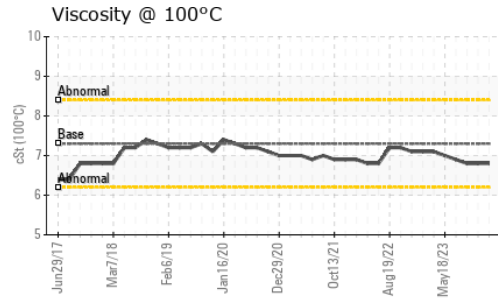
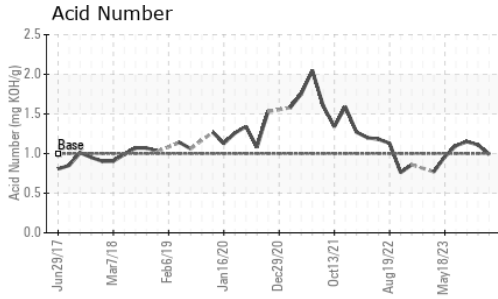
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >20	<b>17</b>	17	15
Sodium	ppm	ASTM D5185(m)	<b>8</b>	8	8
Potassium	ppm	ASTM D5185(m) >20	<b>4</b>	2	2

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>25954</b>	---	---
Particles >6µm	ASTM D7647 >2500	<b>4888</b>	---	---
Particles >14µm	ASTM D7647 >320	<b>202</b>	---	---
Particles >21µm	ASTM D7647 >80	<b>37</b>	---	---
Particles >38µm	ASTM D7647 >20	<b>1</b>	---	---
Particles >71µm	ASTM D7647 >4	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >20/18/15	<b>22/19/15</b>	---	---



# OIL ANALYSIS REPORT

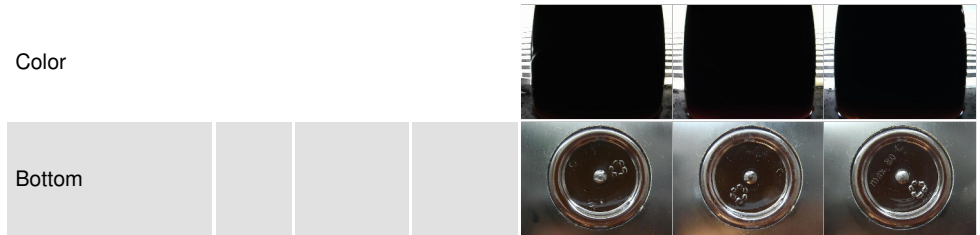


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	<b>0.99</b>	1.11	1.15

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
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
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	<b>34.7</b>	34.8	34.9
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	<b>6.8</b>	6.8	6.8
Viscosity Index (VI)	Scale	ASTM D2270*	168	<b>158</b>	157	157

SAMPLE IMAGES		method	limit/base	current	history1	history2
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**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0866613 **Received** : 27 Dec 2023  
**Lab Number** : **02605340** **Diagnosed** : 28 Dec 2023  
**Unique Number** : 5698425 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: KV100, PrtCount, VI )

**CITY OF THUNDER BAY**  
 AUTO MAINTENANCE STORES, 570 FORT WILLIAM ROAD  
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 CA P7B 2Z8  
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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.