



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**148**  
 Component  
**Rear Transmission (Auto)**  
 Fluid  
**CASTROL TRANSYND (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0888970</b>	WC0889034	WC0889195
Sample Date		Client Info		<b>07 May 2024</b>	22 Mar 2024	18 Jan 2024
Machine Age	kms	Client Info		<b>0</b>	0	0
Oil Age	kms	Client Info		<b>27742</b>	18943	9385
Filter Age	kms	Client Info		<b>27742</b>	18943	9385
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>73</b>	65	58
Chromium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
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>35</b>	26	23
Lead	ppm	ASTM D5185(m)	>55	<b>0</b>	0	1
Copper	ppm	ASTM D5185(m)	>85	<b>8</b>	8	7
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
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

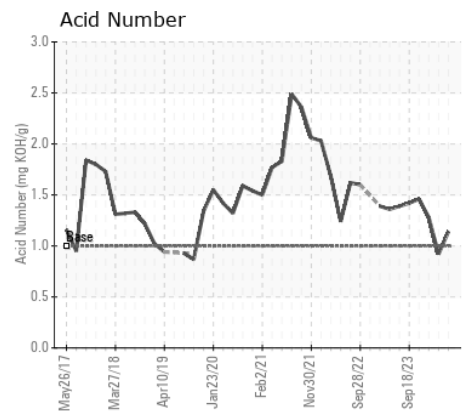
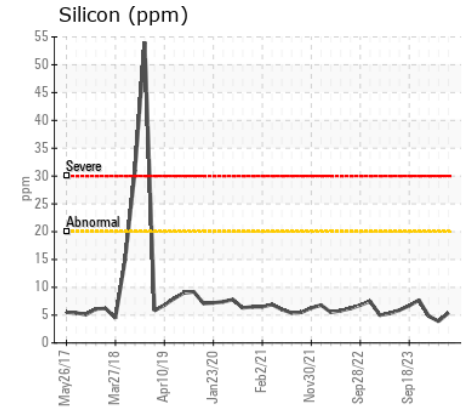
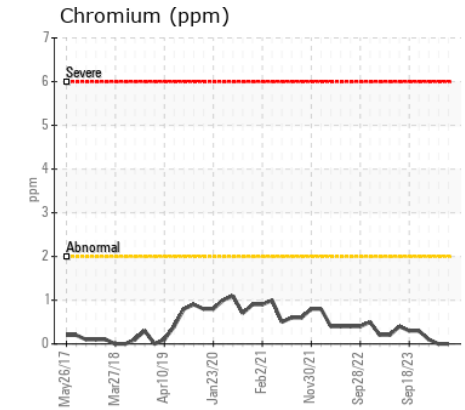
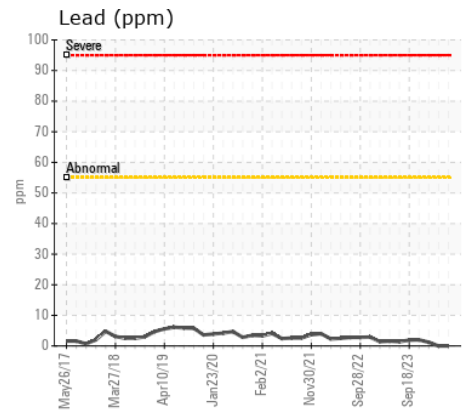
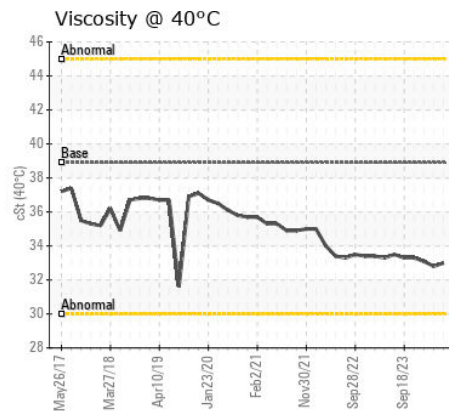
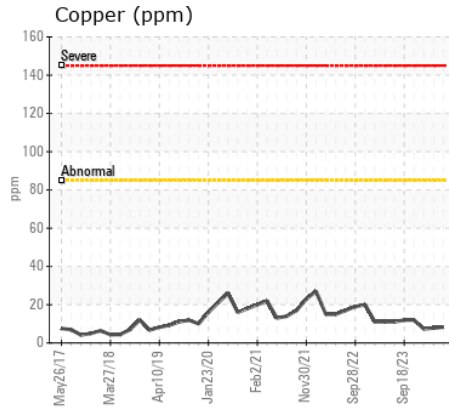
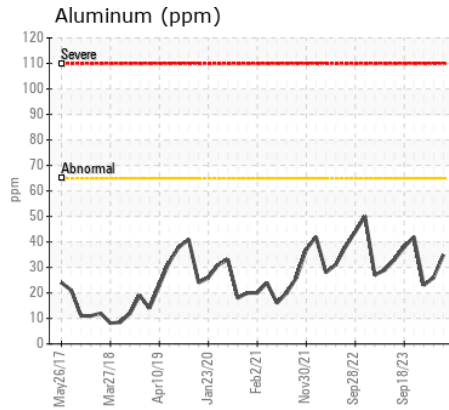
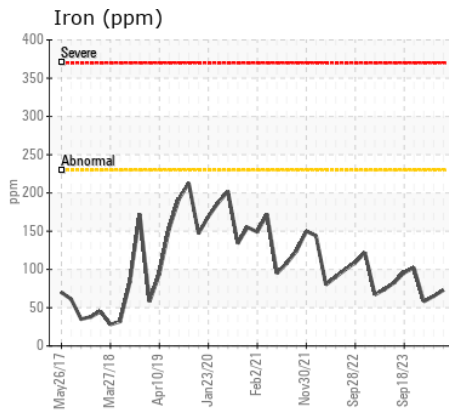
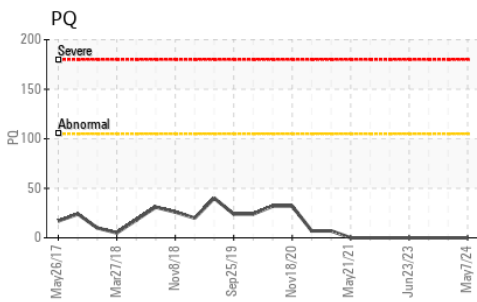
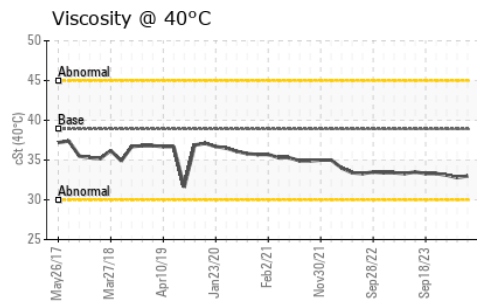
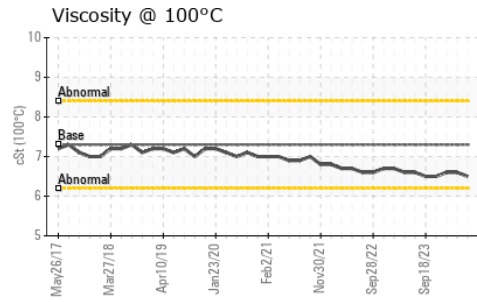
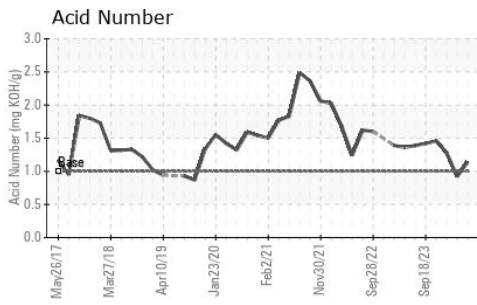
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>20	<b>5</b>	4	5
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	1
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>4</b>	3	3
Boron	ppm	ASTM D5185(m)	150	<b>81</b>	79	80
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>3</b>	3	3
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>1</b>	1	1
Calcium	ppm	ASTM D5185(m)	40	<b>137</b>	135	141
Phosphorus	ppm	ASTM D5185(m)	320	<b>252</b>	245	253
Zinc	ppm	ASTM D5185(m)	5	<b>6</b>	5	5
Sulfur	ppm	ASTM D5185(m)	1050	<b>1567</b>	1502	1684
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	<b>1.14</b>	0.92	1.28
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	<b>33.0</b>	32.8	33.1
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	<b>6.5</b>	6.6	6.6
Viscosity Index (VI)	Scale	ASTM D2270*	168	<b>154</b>	161	159



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0888970  
**Lab Number** : 02634989  
**Unique Number** : 5776142  
**Test Package** : MOB 2 ( Additional Tests: KV100, PQ, TAN Man, VI )

**Received** : 13 May 2024  
**Tested** : 14 May 2024  
**Diagnosed** : 14 May 2024 - Wes Davis

**CITY OF THUNDER BAY**  
 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

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.