



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**226**  
 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>WC0889076</b>	WC0889166	WC0866484
Sample Date		Client Info		<b>25 Mar 2024</b>	02 Feb 2024	19 Dec 2023
Machine Age	kms	Client Info		<b>0</b>	0	0
Oil Age	kms	Client Info		<b>9532</b>	47920	38818
Filter Age	kms	Client Info		<b>9532</b>	47920	38818
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	SEVERE

## WEAR

All component wear rates are normal.

PQ		ASTM D8184*	>105	<b>0</b>	0	---
Iron	ppm	ASTM D5185(m)	>230	<b>39</b>	69	63
Chromium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	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>6</b>	11	9
Lead	ppm	ASTM D5185(m)	>55	<b>&lt;1</b>	2	2
Copper	ppm	ASTM D5185(m)	>85	<b>6</b>	11	10
Tin	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<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

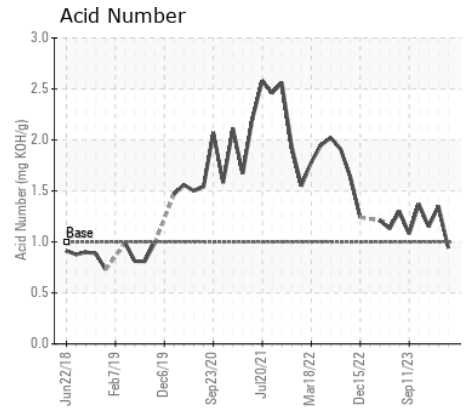
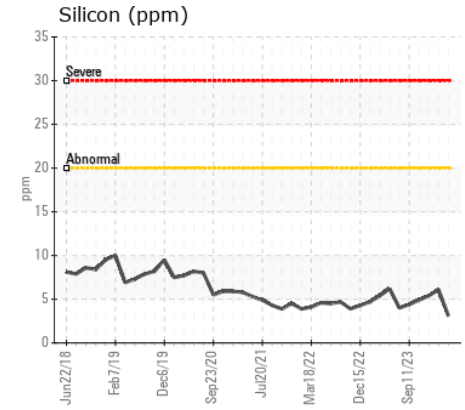
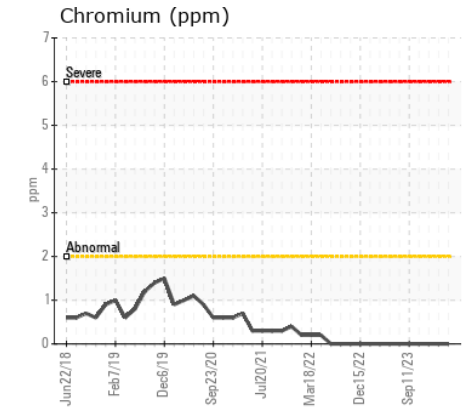
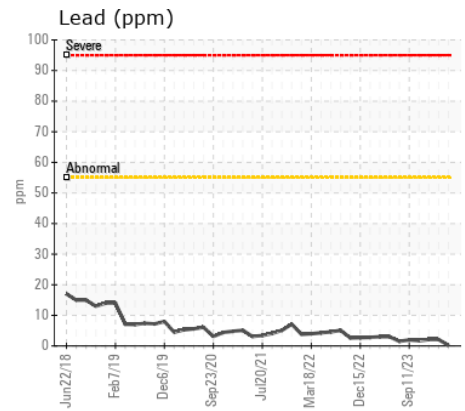
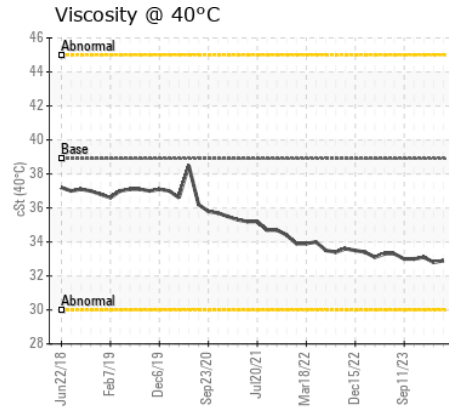
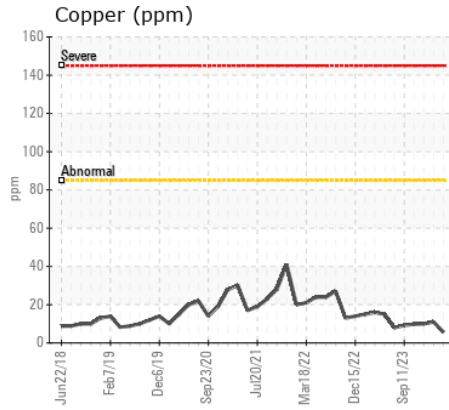
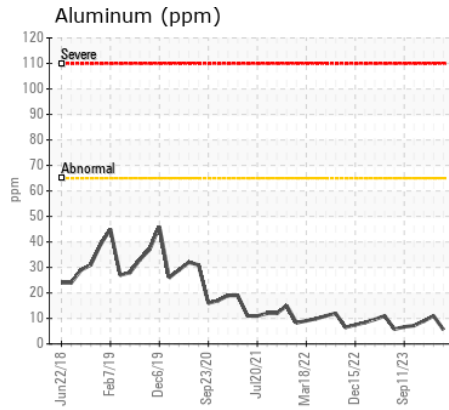
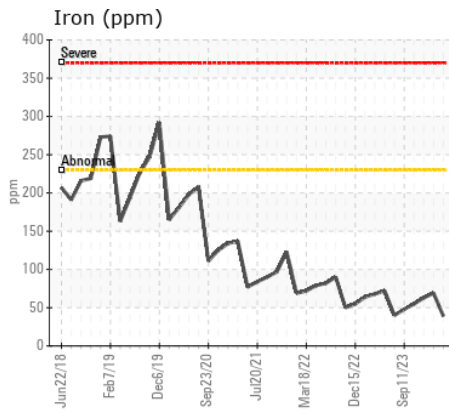
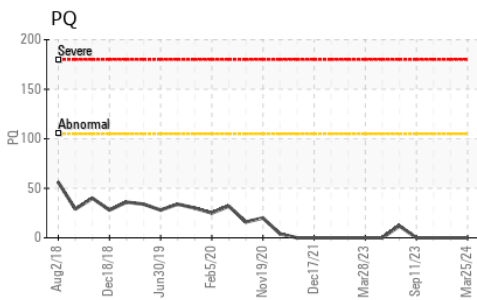
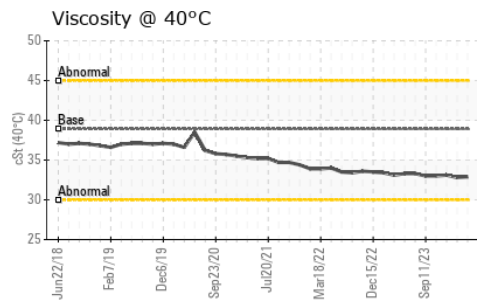
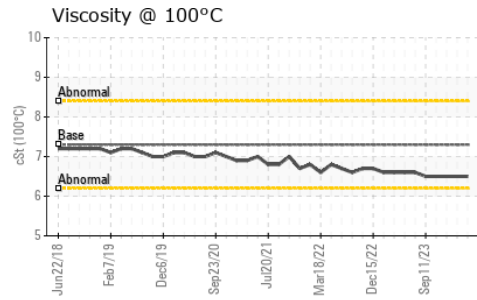
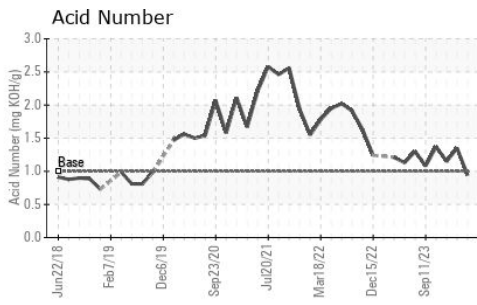
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>20	<b>3</b>	6	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	0
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>3</b>	4	4
Boron	ppm	ASTM D5185(m)	150	<b>73</b>	76	75
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>6</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>1</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	40	<b>141</b>	126	123
Phosphorus	ppm	ASTM D5185(m)	320	<b>236</b>	266	263
Zinc	ppm	ASTM D5185(m)	5	<b>6</b>	4	4
Sulfur	ppm	ASTM D5185(m)	1050	<b>1490</b>	1685	1629
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	<b>0.94</b>	1.35	1.15
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	<b>32.9</b>	32.8	33.1
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	<b>6.5</b>	6.5	6.5
Viscosity Index (VI)	Scale	ASTM D2270*	168	<b>155</b>	156	154



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0889076  
**Lab Number** : 02626442  
**Unique Number** : 5759574  
**Test Package** : MOB 2 ( Additional Tests: KV100, PQ, VI )

**Received** : 03 Apr 2024  
**Tested** : 04 Apr 2024  
**Diagnosed** : 04 Apr 2024 - Wes Davis

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.

**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