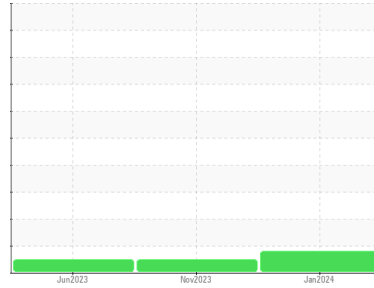




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

**241**

Component

**Transmission (Auto)**

Fluid

**CASTROL TRANSYND (--- GAL)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the fluid.

### Fluid Condition

The AN level is acceptable for this fluid. The fluid is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0889110</b>	WC0866429	WC0816435
Sample Date	Client Info		<b>08 Jan 2024</b>	23 Nov 2023	22 Jun 2023
Machine Age	kms	Client Info	<b>0</b>	0	0
Oil Age	kms	Client Info	<b>29760</b>	20135	10877
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</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>	67	46
Chromium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>65	<b>15</b>	11	8
Lead	ppm	ASTM D5185(m)	>55	<b>3</b>	2	<1
Copper	ppm	ASTM D5185(m)	>85	<b>13</b>	11	7
Tin	ppm	ASTM D5185(m)	>5	<b>1</b>	<1	<1
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>44</b>	47	50
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185(m)		<b>1</b>	<1	1
Magnesium	ppm	ASTM D5185(m)	0	<b>1</b>	<1	1
Calcium	ppm	ASTM D5185(m)	40	<b>116</b>	115	118
Phosphorus	ppm	ASTM D5185(m)	320	<b>203</b>	204	217
Zinc	ppm	ASTM D5185(m)	5	<b>6</b>	6	6
Sulfur	ppm	ASTM D5185(m)	1050	<b>1552</b>	1445	1502
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

## CONTAMINANTS

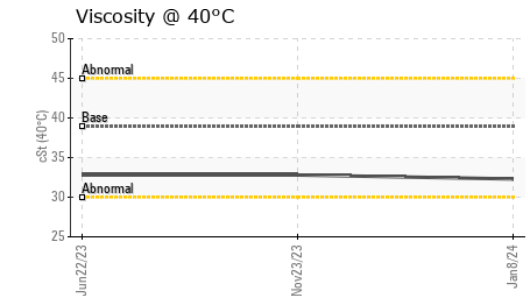
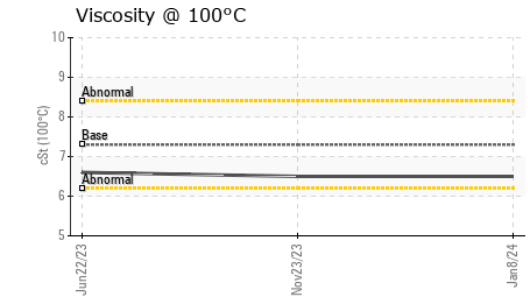
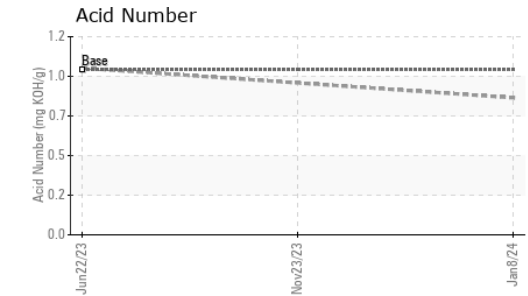
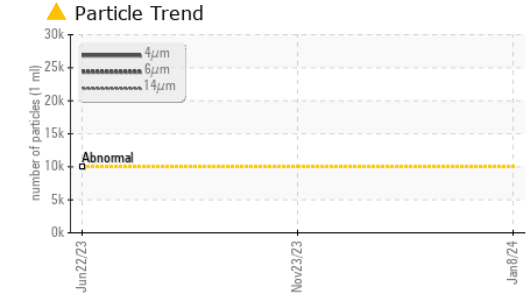
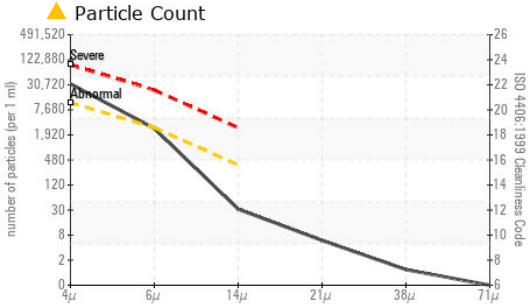
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>20	<b>5</b>	5	4
Sodium	ppm	ASTM D5185(m)		<b>4</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	<1	2

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>▲ 28055</b>	---	---
Particles >6µm	ASTM D7647	>2500	<b>2402</b>	---	---
Particles >14µm	ASTM D7647	>320	<b>28</b>	---	---
Particles >21µm	ASTM D7647	>80	<b>5</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>▲ 22/18/12</b>	---	---



# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	<b>0.83</b>	---	1.01
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	VLITE
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>32.3</b>	32.8	32.8
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	<b>6.5</b>	6.5	6.6
Viscosity Index (VI)	Scale	ASTM D2270*	168	<b>160</b>	156	161

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0889110 **Received** : 12 Jan 2024  
**Lab Number** : **02608602** **Diagnosed** : 16 Jan 2024  
**Unique Number** : 5709688 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV100, PrtCount, VI )

**CITY OF THUNDER BAY**  
 AUTO MAINTENANCE STORES, 570 FORT WILLIAM ROAD  
 THUNDER BAY, ON  
 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.