



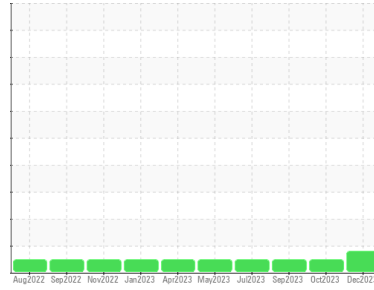
# OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Machine Id  
**240**  
 Component  
**Transmission (Auto)**  
 Fluid  
**CASTROL TRANSYND (--- GAL)**



## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a light amount of silt (particulates < 14 microns in size) present 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>WC0866595</b>	WC0866571	WC0816399
Sample Date	Client Info			<b>07 Dec 2023</b>	27 Oct 2023	15 Sep 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>48545</b>	39483	29424
Oil Changed	Client Info			<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status				<b>ATTENTION</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>89</b>	83	77
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>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>65	<b>51</b>	43	37
Lead	ppm	ASTM D5185(m)	>55	<b>7</b>	6	6
Copper	ppm	ASTM D5185(m)	>85	<b>8</b>	7	6
Tin	ppm	ASTM D5185(m)	>5	<b>3</b>	2	2
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

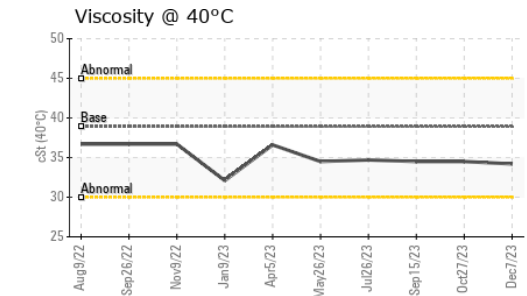
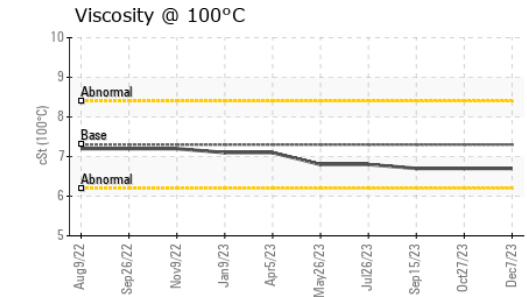
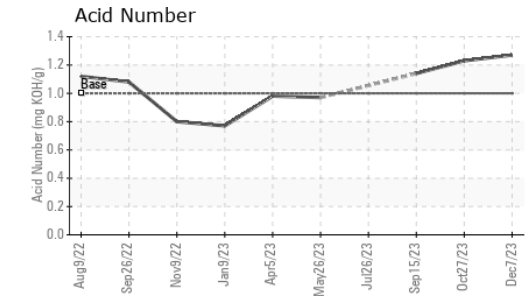
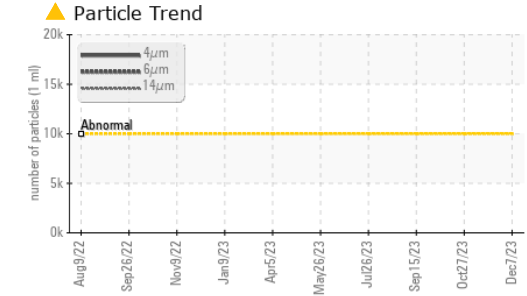
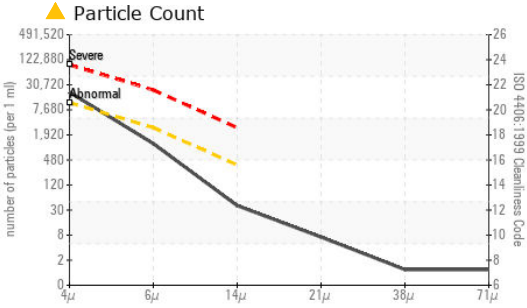
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	150	<b>60</b>	62	61
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	1	<1
Calcium	ppm	ASTM D5185(m)	40	<b>93</b>	93	95
Phosphorus	ppm	ASTM D5185(m)	320	<b>225</b>	230	230
Zinc	ppm	ASTM D5185(m)	5	<b>8</b>	8	8
Sulfur	ppm	ASTM D5185(m)	1050	<b>1063</b>	1073	1106
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>8</b>	8	7
Sodium	ppm	ASTM D5185(m)		<b>5</b>	5	6
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>▲ 17721</b>	---	---
Particles >6µm		ASTM D7647	>2500	<b>1042</b>	---	---
Particles >14µm		ASTM D7647	>320	<b>34</b>	---	---
Particles >21µm		ASTM D7647	>80	<b>6</b>	---	---
Particles >38µm		ASTM D7647	>20	<b>1</b>	---	---
Particles >71µm		ASTM D7647	>4	<b>1</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>▲ 21/17/12</b>	---	---



# OIL ANALYSIS REPORT

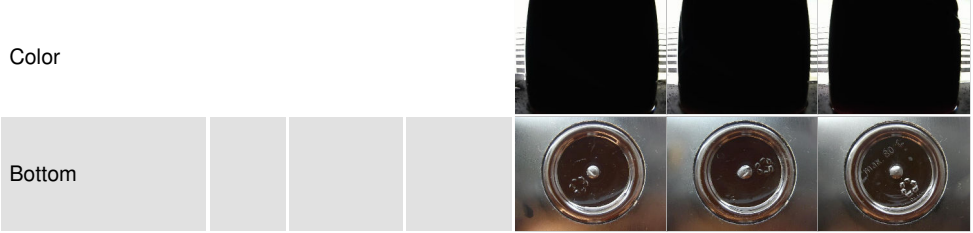


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	<b>1.27</b>	1.23	1.14

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>34.2</b>	34.5	34.5
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	<b>6.7</b>	6.7	6.7
Viscosity Index (VI)	Scale	ASTM D2270*	168	<b>156</b>	154	154

### SAMPLE IMAGES



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0866595 **Received** : 14 Dec 2023  
**Lab Number** : **02603265** **Diagnosed** : 15 Dec 2023  
**Unique Number** : 5696350 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV100, PrtCount, TAN Man, 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.