



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**165**  
 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>WC0889004</b>	WC0889160	WC0866593
Sample Date		Client Info		<b>08 Apr 2024</b>	30 Jan 2024	08 Dec 2023
Machine Age	kms	Client Info		<b>0</b>	0	0
Oil Age	kms	Client Info		<b>9142</b>	47318	37897
Filter Age	kms	Client Info		<b>9142</b>	47318	37897
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	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>230	<b>29</b>	51	49
Chromium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>5	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>65	<b>11</b>	20	19
Lead	ppm	ASTM D5185(m)	>55	<b>3</b>	7	7
Copper	ppm	ASTM D5185(m)	>85	<b>8</b>	13	13
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

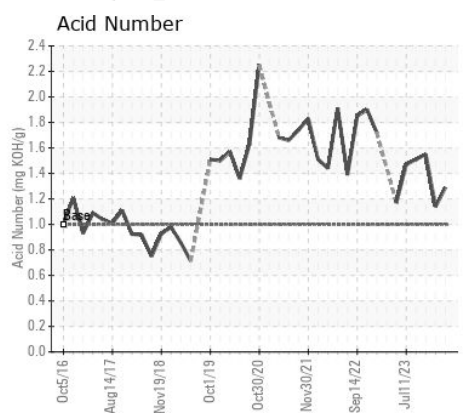
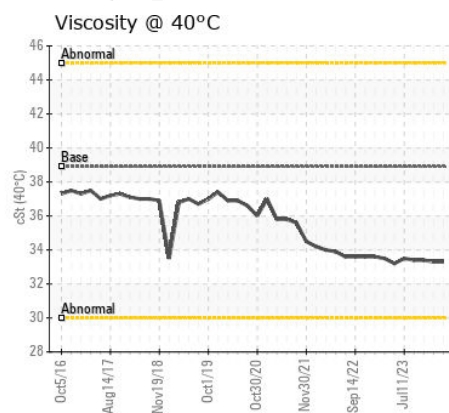
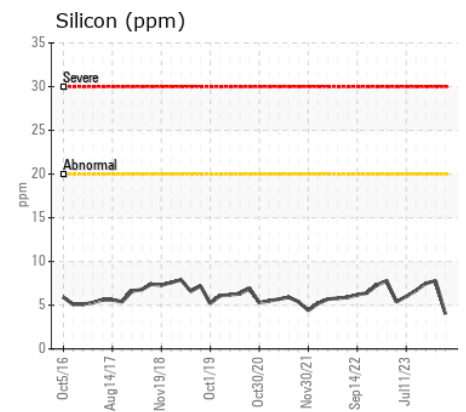
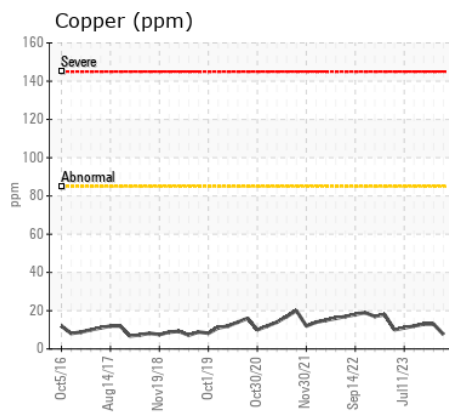
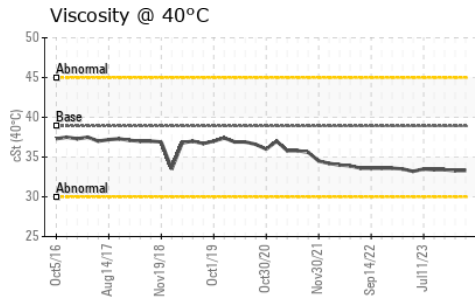
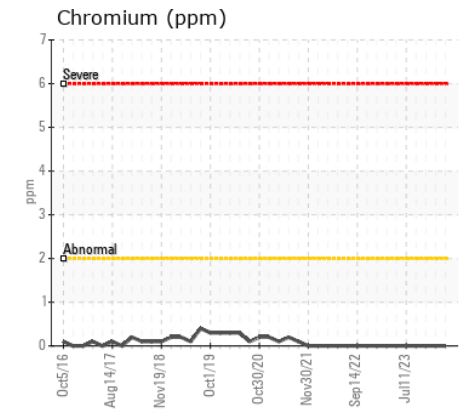
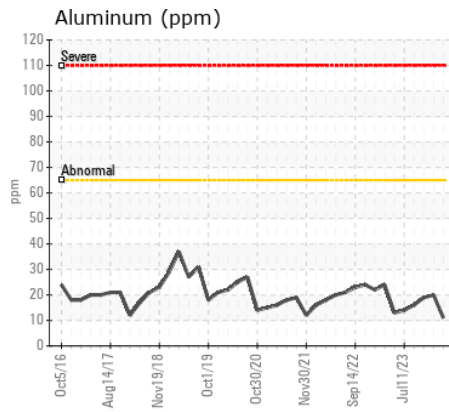
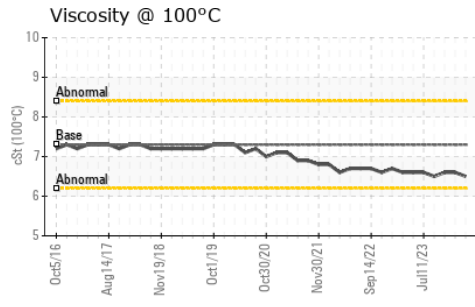
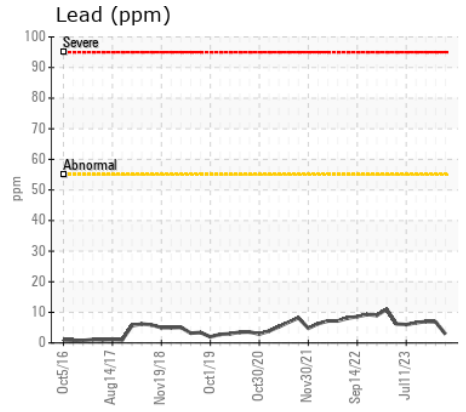
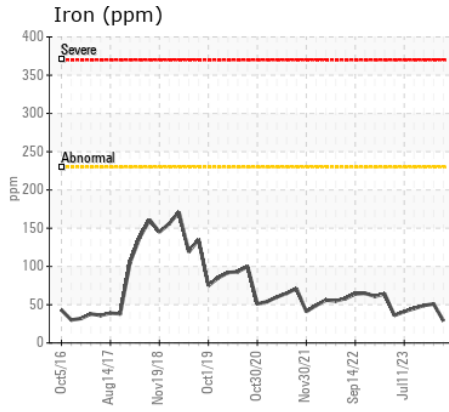
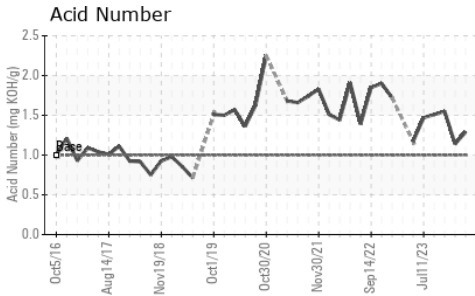
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>20	<b>4</b>	8	8
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	2	<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>VLITE</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>	7	7
Boron	ppm	ASTM D5185(m)	150	<b>80</b>	88	89
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>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Calcium	ppm	ASTM D5185(m)	40	<b>141</b>	121	120
Phosphorus	ppm	ASTM D5185(m)	320	<b>245</b>	286	281
Zinc	ppm	ASTM D5185(m)	5	<b>6</b>	4	4
Sulfur	ppm	ASTM D5185(m)	1050	<b>1517</b>	1686	1601
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	<b>1.29</b>	1.14	1.55
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	<b>33.3</b>	33.3	33.4
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>152</b>	158	157



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0889004  
**Lab Number** : 02628929  
**Unique Number** : 5762061  
**Test Package** : MOB 2 ( Additional Tests: KV100, TAN Man, VI )  
**Received** : 15 Apr 2024  
**Tested** : 16 Apr 2024  
**Diagnosed** : 16 Apr 2024 - Wes Davis

**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.