



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id  
**156**  
 Component  
**Rear Transmission (Auto)**  
 Fluid  
**CASTROL TRANSYND (24 LTR)**

## RECOMMENDATION

We advise that you check for the source of the coolant leak. We recommend that you drain the fluid from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with fluid. We recommend an early resample to monitor this condition.

## WEAR

All component wear rates are normal.

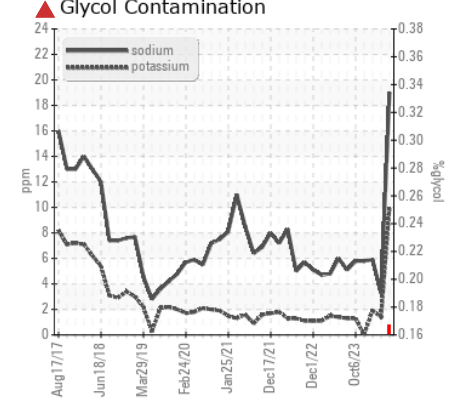
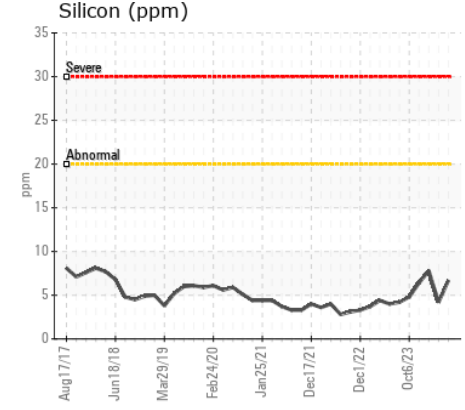
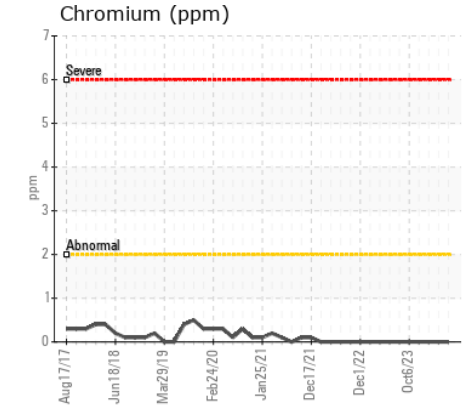
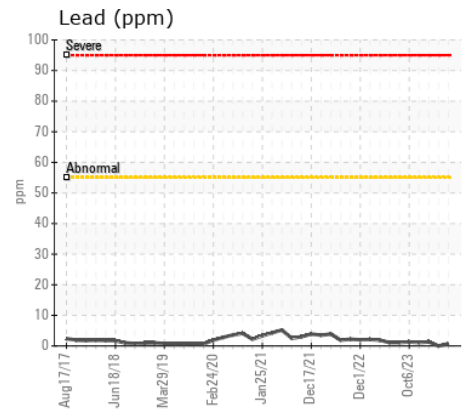
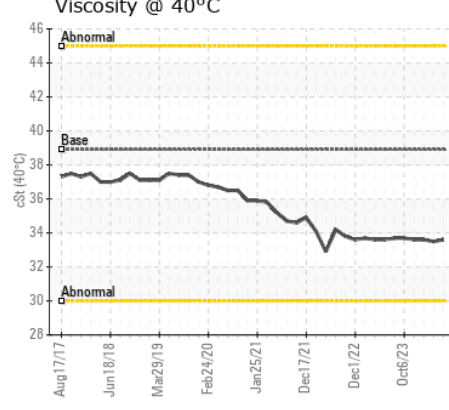
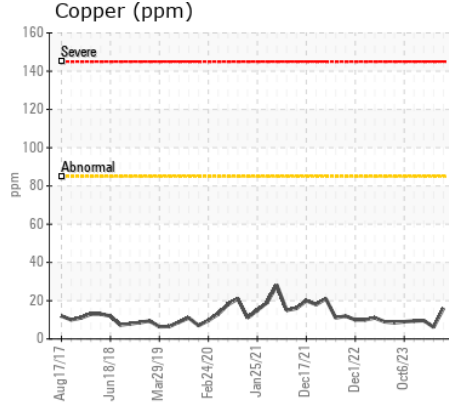
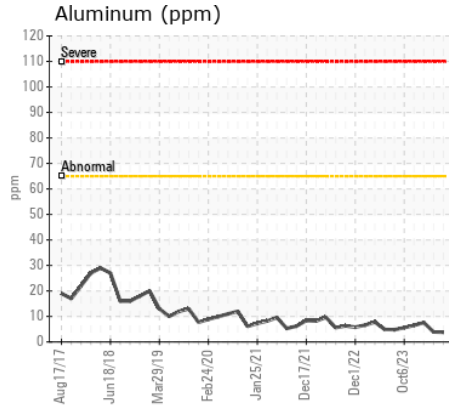
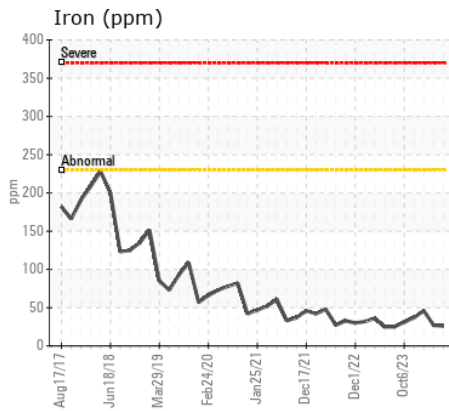
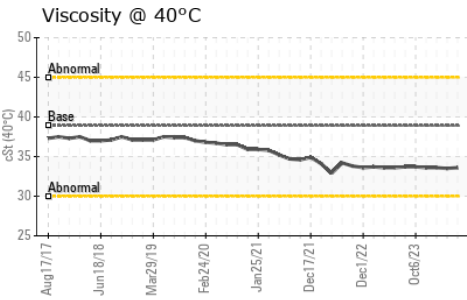
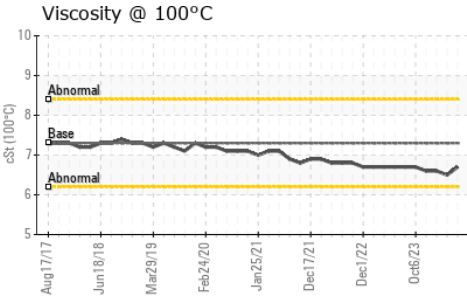
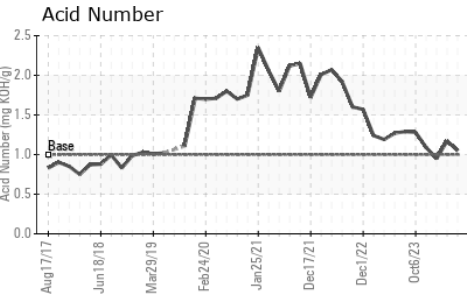
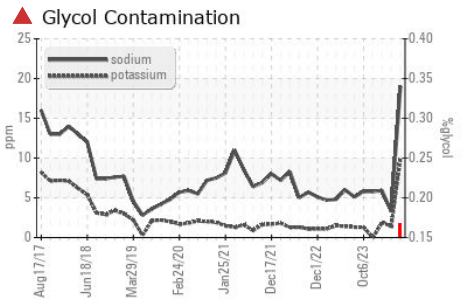
## CONTAMINATION

Test for glycol is positive. There is a high concentration of glycol present in the fluid.

## FLUID CONDITION

The AN level is acceptable for this fluid. The fluid is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0866481</b>	WC0889000	WC0889114
Sample Date		Client Info		<b>07 Jun 2024</b>	08 Apr 2024	20 Feb 2024
Machine Age	kms	Client Info		<b>0</b>	0	0
Oil Age	kms	Client Info		<b>17411</b>	9280	47924
Filter Age	kms	Client Info		<b>17411</b>	9280	47924
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>SEVERE</b>	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>230	<b>26</b>	27	46
Chromium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</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>4</b>	4	8
Lead	ppm	ASTM D5185(m)	>55	<b>&lt;1</b>	0	1
Copper	ppm	ASTM D5185(m)	>85	<b>16</b>	6	10
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
Silicon	ppm	ASTM D5185(m)	>20	<b>7</b>	4	8
Potassium	ppm	ASTM D5185(m)	>20	<b>▲ 10</b>	1	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol	%	ASTM D7922*		<b>▲ 0.167</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>VLITE</b>	VLITE	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
Sodium	ppm	ASTM D5185(m)		<b>19</b>	3	6
Boron	ppm	ASTM D5185(m)	150	<b>38</b>	62	49
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>5</b>	6	0
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>1</b>	<1	2
Calcium	ppm	ASTM D5185(m)	40	<b>140</b>	142	126
Phosphorus	ppm	ASTM D5185(m)	320	<b>224</b>	234	257
Zinc	ppm	ASTM D5185(m)	5	<b>14</b>	7	6
Sulfur	ppm	ASTM D5185(m)	1050	<b>1475</b>	1495	1613
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	<b>1.05</b>	1.17	0.95
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	<b>33.6</b>	33.5	33.6
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	<b>6.7</b>	6.5	6.6
Viscosity Index (VI)	Scale	ASTM D2270*	168	<b>161</b>	151	155



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0866481 **Received** : 24 Jun 2024  
**Lab Number** : 02643772 **Tested** : 25 Jun 2024  
**Unique Number** : 5801311 **Diagnosed** : 25 Jun 2024 - Kevin Marson  
**Test Package** : MOB 2 ( Additional Tests: Glycol, KV100, 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.