



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**ALLISON 236**  
Component  
**Rear Transmission (Auto)**  
Fluid  
**CASTROL TRANSYND (--- GAL)**

**RECOMMENDATION**

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0889182</b>	WC0866609	WC0866457
Sample Date		Client Info		<b>28 Dec 2023</b>	14 Dec 2023	18 Oct 2023
Machine Age	kms	Client Info		<b>0</b>	0	0
Oil Age	kms	Client Info		<b>28744</b>	9306	20050
Filter Age	kms	Client Info		<b>28744</b>	9306	20050
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>ABNORMAL</b>	ABNORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>230	<b>40</b>	38	40
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	<1
Aluminum	ppm	ASTM D5185(m)	>65	<b>7</b>	7	6
Lead	ppm	ASTM D5185(m)	>55	<b>&lt;1</b>	2	<1
Copper	ppm	ASTM D5185(m)	>85	<b>5</b>	6	5
Tin	ppm	ASTM D5185(m)	>5	<b>&lt;1</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**

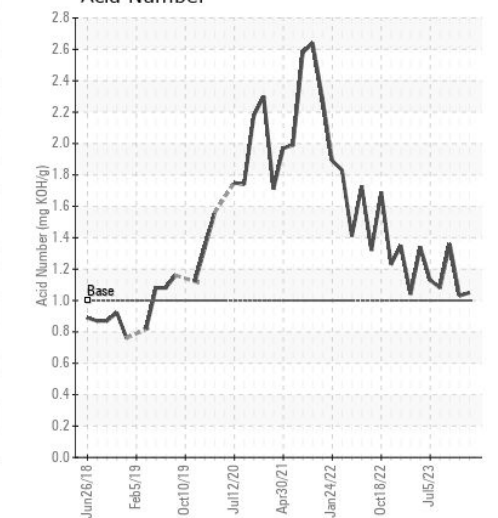
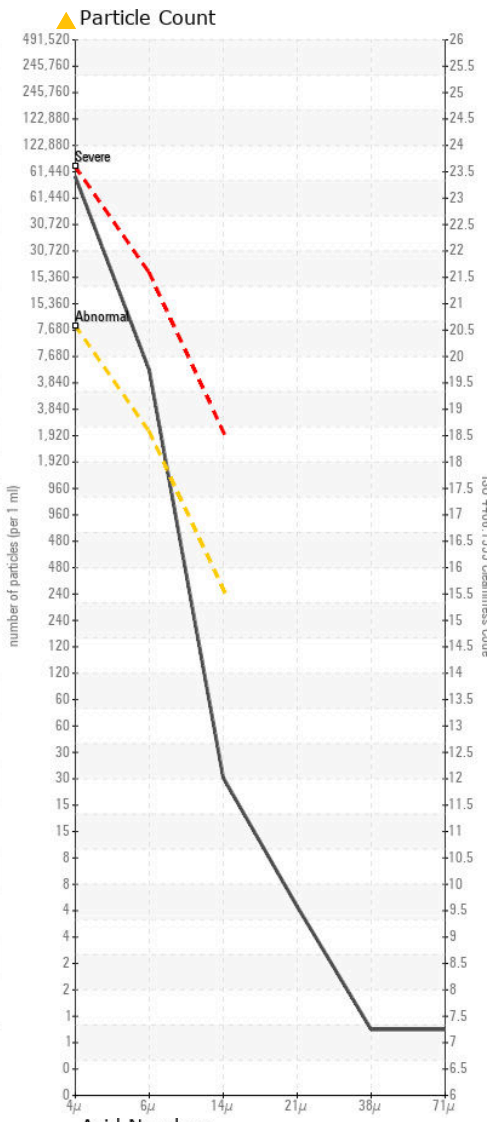
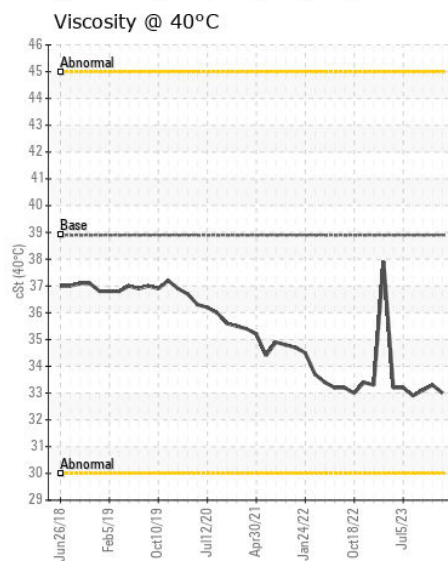
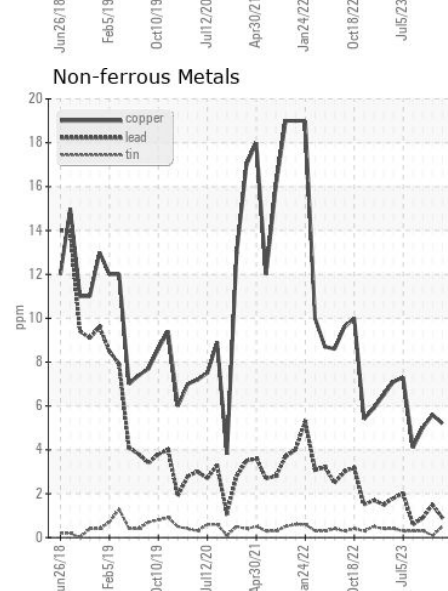
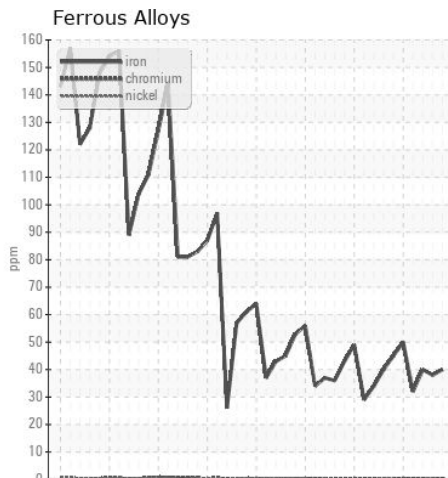
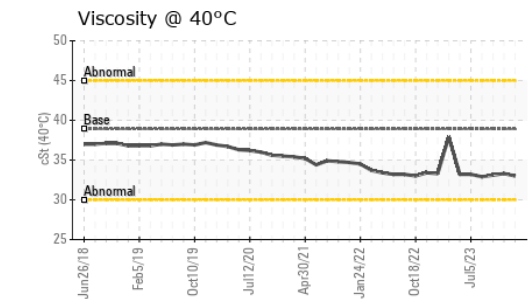
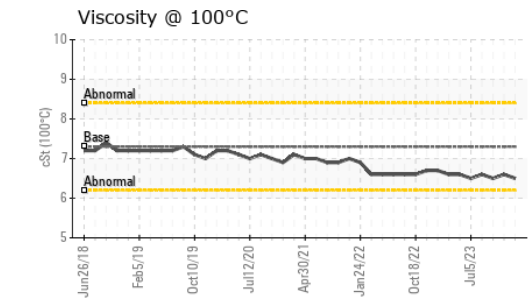
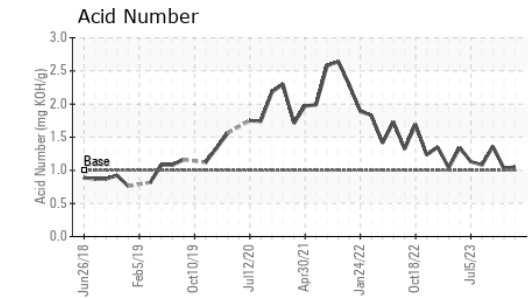
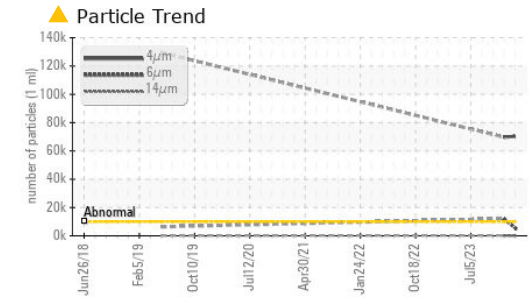
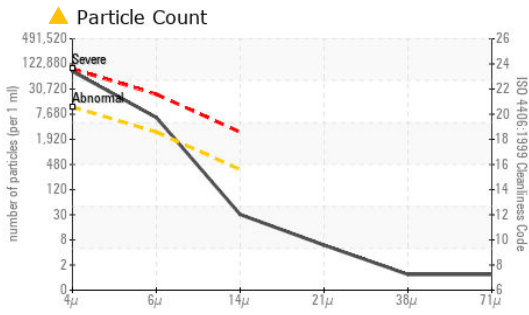
There is a moderate amount of silt (particulates < 14 microns in size) present in the fluid.

Silicon	ppm	ASTM D5185(m)	>20	<b>4</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>10000	<b>▲ 70351</b>	▲ 69648	---
Particles >6µm		ASTM D7647	>2500	<b>▲ 5596</b>	▲ 12084	---
Particles >14µm		ASTM D7647	>320	<b>27</b>	170	---
Particles >21µm		ASTM D7647	>80	<b>5</b>	16	---
Particles >38µm		ASTM D7647	>20	<b>1</b>	0	---
Particles >71µm		ASTM D7647	>4	<b>1</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>▲ 23/20/12</b>	▲ 23/21/15	---
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 fluid is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185(m)		<b>3</b>	3	3
Boron	ppm	ASTM D5185(m)	150	<b>70</b>	77	74
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</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>131</b>	127	123
Phosphorus	ppm	ASTM D5185(m)	320	<b>233</b>	241	231
Zinc	ppm	ASTM D5185(m)	5	<b>5</b>	3	3
Sulfur	ppm	ASTM D5185(m)	1050	<b>1623</b>	1603	1516
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	<b>1.05</b>	1.03	1.36
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	<b>33.0</b>	33.3	33.1
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	<b>6.5</b>	6.6	6.5
Viscosity Index (VI)	Scale	ASTM D2270*	168	<b>154</b>	158	154



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0889182 **Received** : 12 Jan 2024  
**Lab Number** : 02608597 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 5709683 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV100, PrtCount, VI )

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.

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