



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
ALLISON 232
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		WC0889104	WC0866443	WC0816381
Sample Date		Client Info		28 Dec 2023	24 Nov 2023	27 Sep 2023
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		27761	18482	9292
Filter Age	kms	Client Info		27761	18482	9292
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>230	40	37	32
Chromium	ppm	ASTM D5185(m)	>2	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>65	6	5	5
Lead	ppm	ASTM D5185(m)	>55	2	2	2
Copper	ppm	ASTM D5185(m)	>85	7	7	7
Tin	ppm	ASTM D5185(m)	>5	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

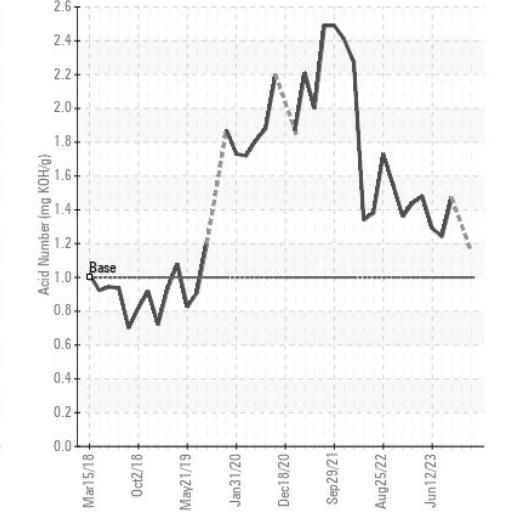
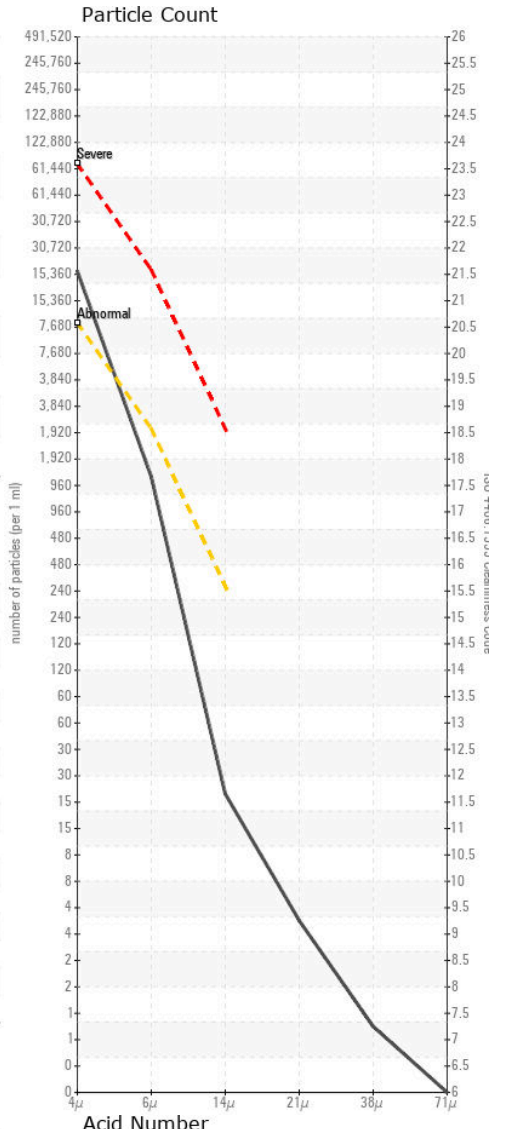
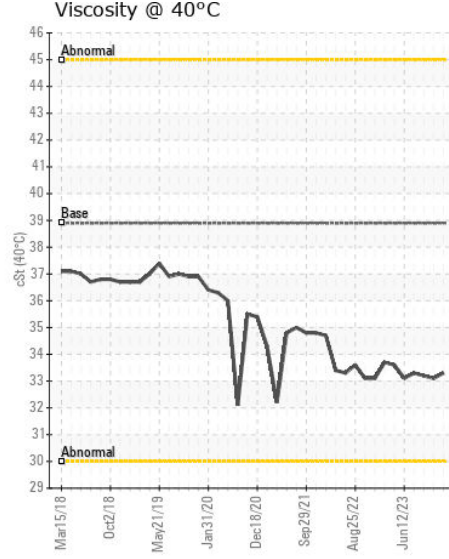
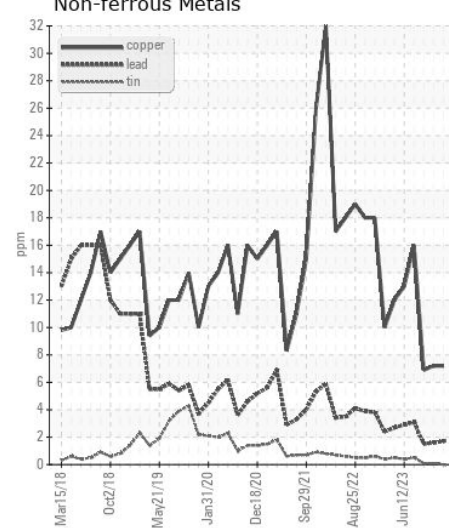
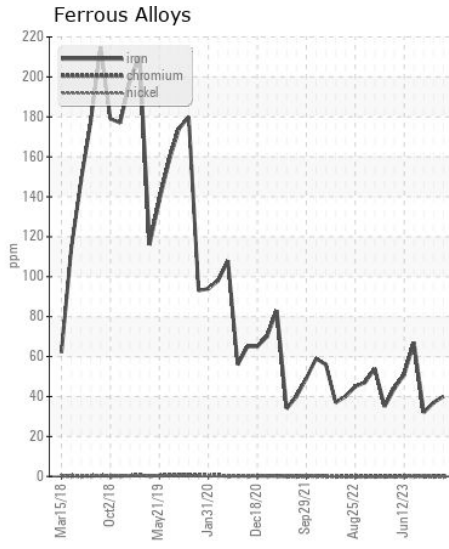
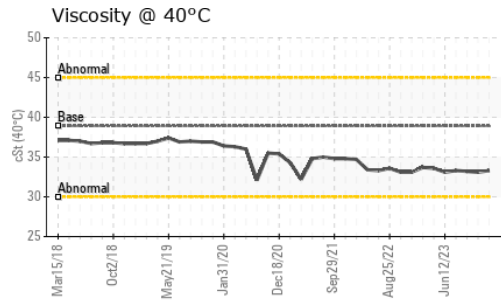
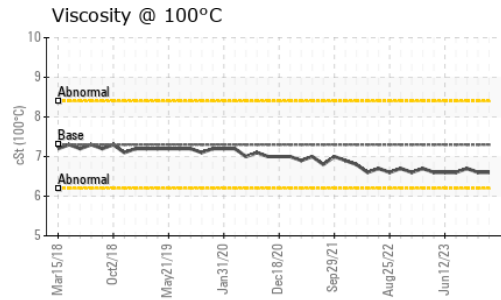
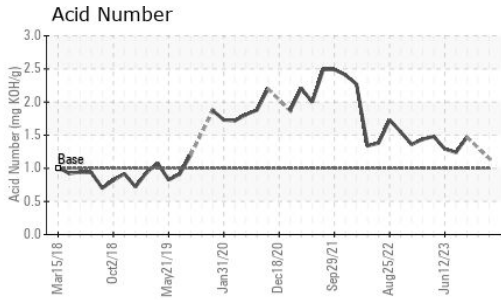
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>20	4	4	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>10000	19647	---	---
Particles >6µm		ASTM D7647	>2500	1333	---	---
Particles >14µm		ASTM D7647	>320	21	---	---
Particles >21µm		ASTM D7647	>80	4	---	---
Particles >38µm		ASTM D7647	>20	1	---	---
Particles >71µm		ASTM D7647	>4	0	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	21/18/12	---	---
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	HAZY	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	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)		3	4	3
Boron	ppm	ASTM D5185(m)	150	76	80	82
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	0	1	<1	<1
Calcium	ppm	ASTM D5185(m)	40	127	126	127
Phosphorus	ppm	ASTM D5185(m)	320	242	241	243
Zinc	ppm	ASTM D5185(m)	5	3	3	3
Sulfur	ppm	ASTM D5185(m)	1050	1664	1561	1579
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	1.15	---	1.47
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	33.3	33.1	33.2
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	6.6	6.6	6.7
Viscosity Index (VI)	Scale	ASTM D2270*	168	158	159	164



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0889104 **Received** : 12 Jan 2024
Lab Number : 02608598 **Diagnosed** : 16 Jan 2024
Unique Number : 5709684 **Diagnostician** : Kevin Marson
Test Package : MOB 2 (Additional Tests: KV100, PrtCount, VI)

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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.