



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
ALLISON 228
 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		WC0889054	WC0889139	WC0889174
Sample Date		Client Info		02 Apr 2024	07 Feb 2024	21 Dec 2023
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		27801	9042	8986
Filter Age	kms	Client Info		27801	9042	8986
Oil Changed		Client Info		Not Changd	Changed	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	43	39	34
Chromium	ppm	ASTM D5185(m)	>2	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>65	10	9	8
Lead	ppm	ASTM D5185(m)	>55	2	3	3
Copper	ppm	ASTM D5185(m)	>85	6	5	5
Tin	ppm	ASTM D5185(m)	>5	0	<1	0
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

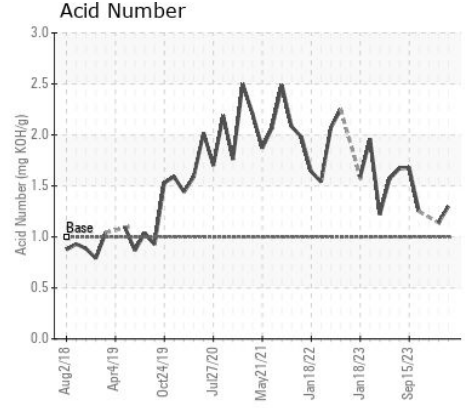
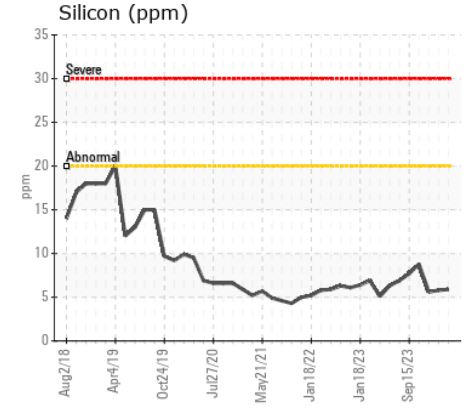
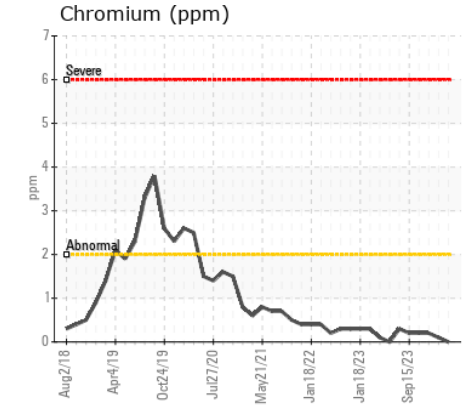
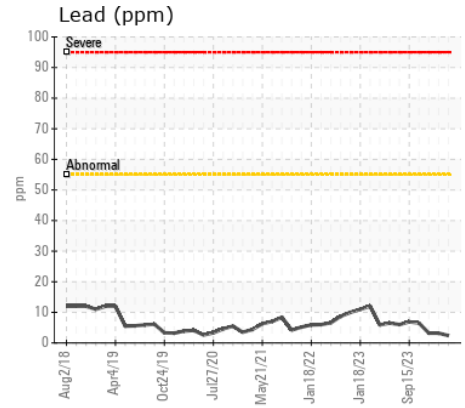
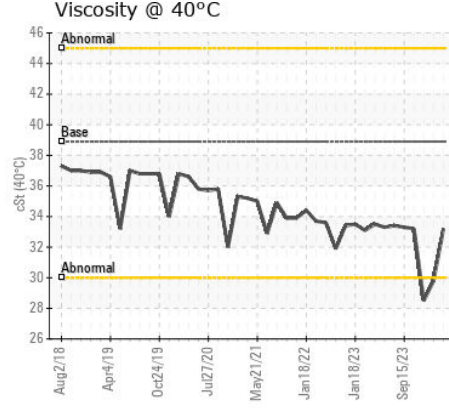
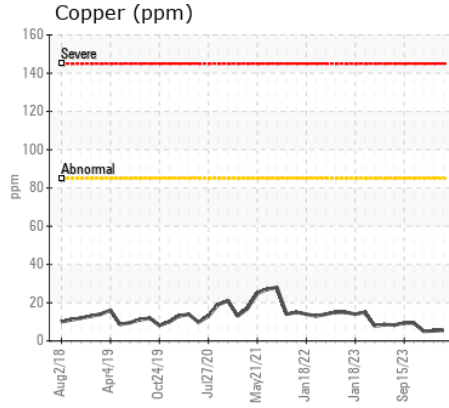
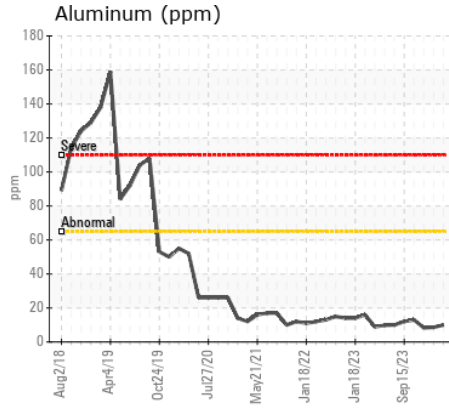
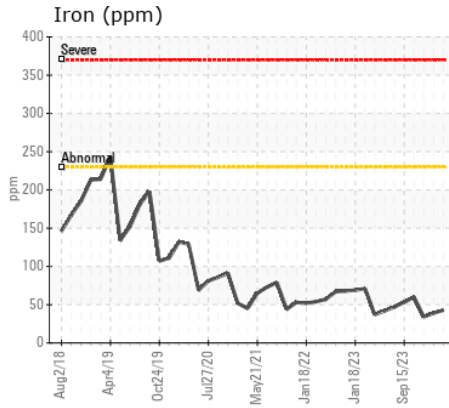
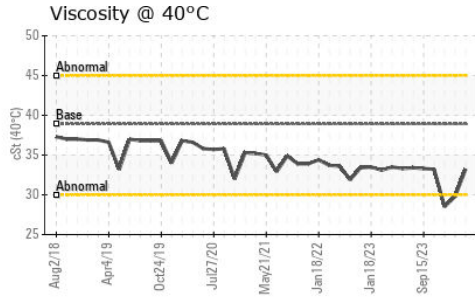
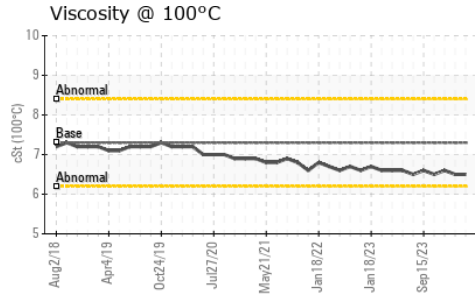
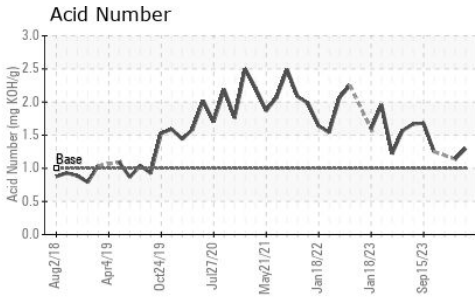
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>20	6	6	6
Potassium	ppm	ASTM D5185(m)	>20	1	2	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	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)		4	3	3
Boron	ppm	ASTM D5185(m)	150	78	76	77
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	<1	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	131	134
Phosphorus	ppm	ASTM D5185(m)	320	236	240	241
Zinc	ppm	ASTM D5185(m)	5	4	4	5
Sulfur	ppm	ASTM D5185(m)	1050	1515	1635	1645
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	1.30	1.14	---
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	33.2	29.8	28.5
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	6.5	6.5	6.6
Viscosity Index (VI)	Scale	ASTM D2270*	168	153	180	199



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0889054
Lab Number : 02627417
Unique Number : 5760549
Test Package : MOB 2 (Additional Tests: KV100, TAN Man, VI)

Received : 08 Apr 2024
Tested : 09 Apr 2024
Diagnosed : 09 Apr 2024 - Wes Davis

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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.