



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		WC0889174	WC0866467	WC0816389
Sample Date		Client Info		21 Dec 2023	03 Nov 2023	15 Sep 2023
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		8986	48117	38234
Filter Age	kms	Client Info		8986	48117	38234
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	34	60	53
Chromium	ppm	ASTM D5185(m)	>2	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	0	0	<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	8	13	12
Lead	ppm	ASTM D5185(m)	>55	3	6	7
Copper	ppm	ASTM D5185(m)	>85	5	9	9
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

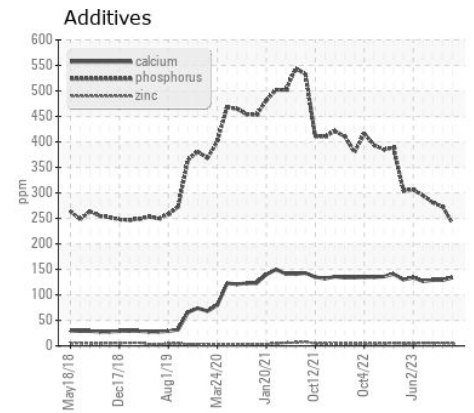
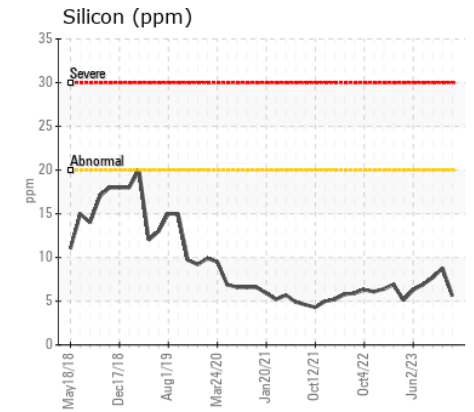
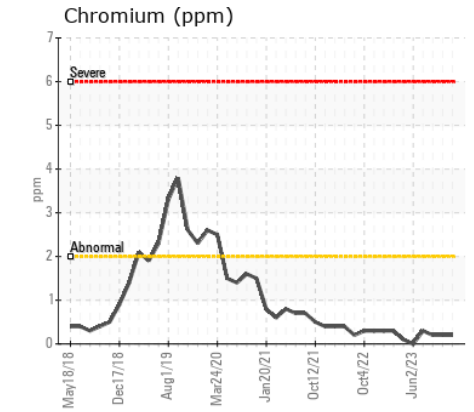
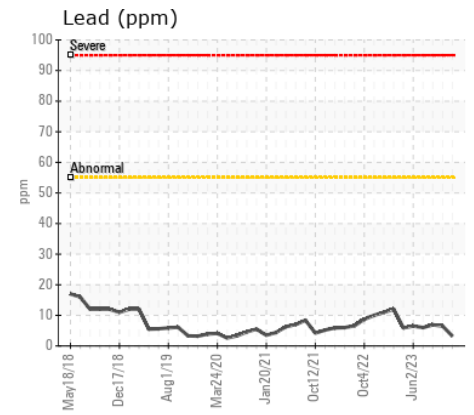
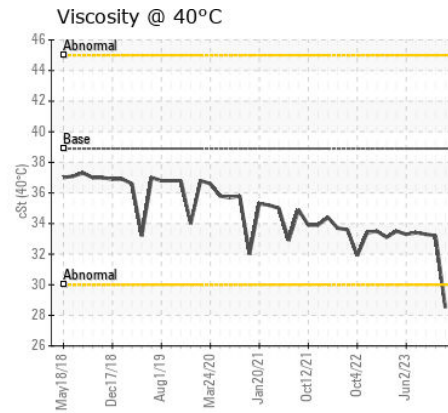
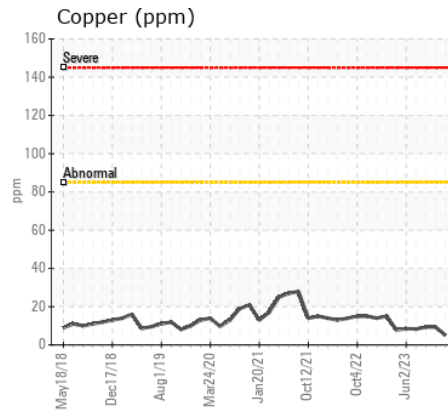
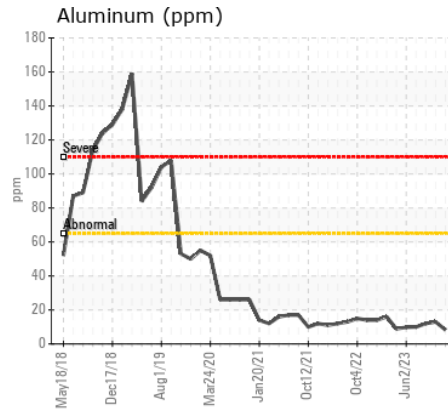
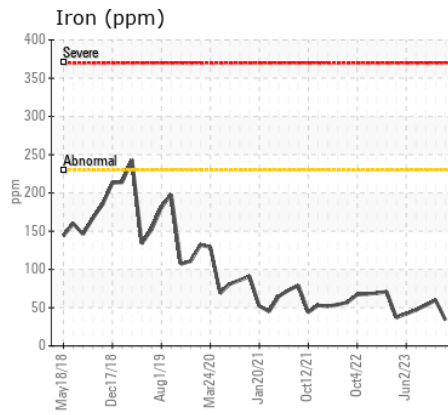
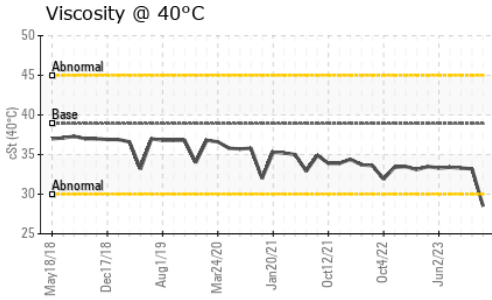
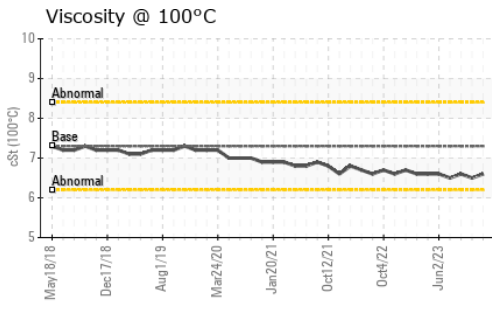
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>20	6	9	8
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
Water		WC Method	>0.1	NEG	NEG	NEG
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	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		3	6	6
Boron	ppm	ASTM D5185(m)	150	77	92	88
Barium	ppm	ASTM D5185(m)	0	0	<1	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	134	129	129
Phosphorus	ppm	ASTM D5185(m)	320	241	273	281
Zinc	ppm	ASTM D5185(m)	5	5	6	6
Sulfur	ppm	ASTM D5185(m)	1050	1645	1687	1741
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	28.5	33.2	33.3
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	6.6	6.5	6.6
Viscosity Index (VI)	Scale	ASTM D2270*	168	199	153	158



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0889174
Lab Number : 02606810
Unique Number : 5707896
Test Package : MOB 1 (Additional Tests: KV100, VI)

Received : 05 Jan 2024
Diagnosed : 05 Jan 2024
Diagnostician : 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.