



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
ALLISON 233
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		WC0889072	WC0889136	WC0866611
Sample Date		Client Info		26 Mar 2024	15 Feb 2024	18 Dec 2023
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		18132	9114	47731
Filter Age	kms	Client Info		18132	9114	47731
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184*	>105	0	0	---
Iron	ppm	ASTM D5185(m)	>230	39	31	56
Chromium	ppm	ASTM D5185(m)	>2	0	0	0
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	0	0
Aluminum	ppm	ASTM D5185(m)	>65	6	5	9
Lead	ppm	ASTM D5185(m)	>55	1	2	3
Copper	ppm	ASTM D5185(m)	>85	6	5	9
Tin	ppm	ASTM D5185(m)	>5	0	0	<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

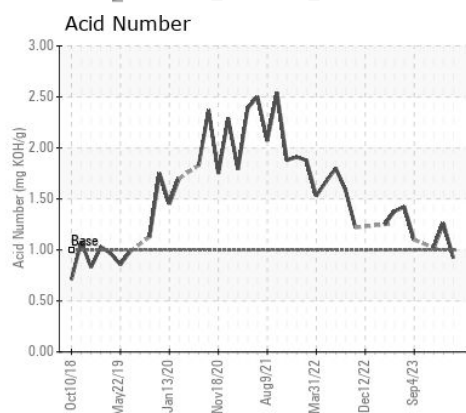
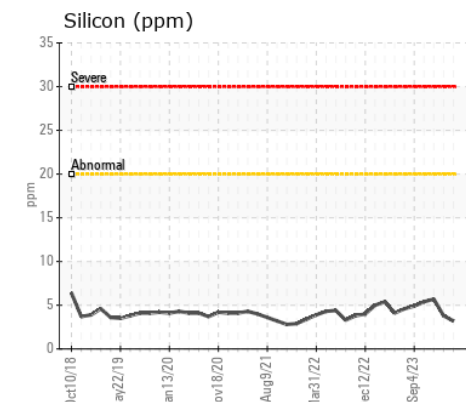
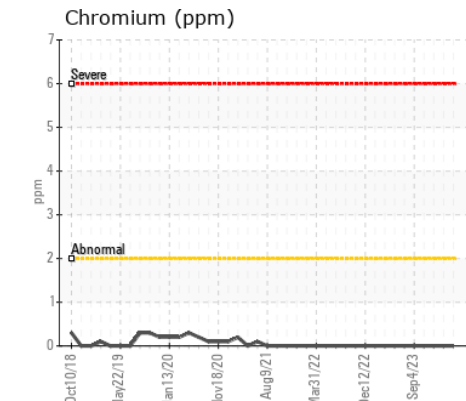
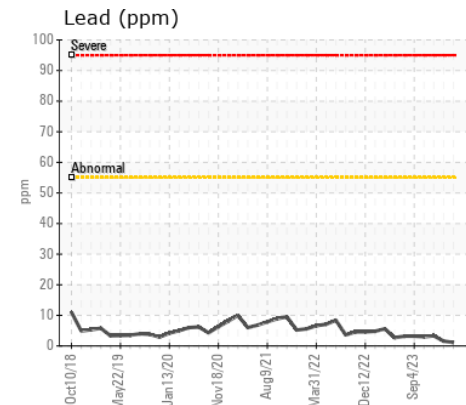
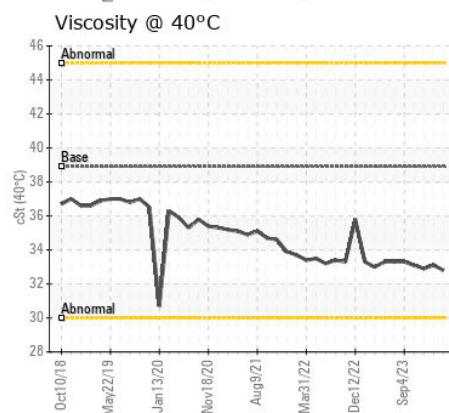
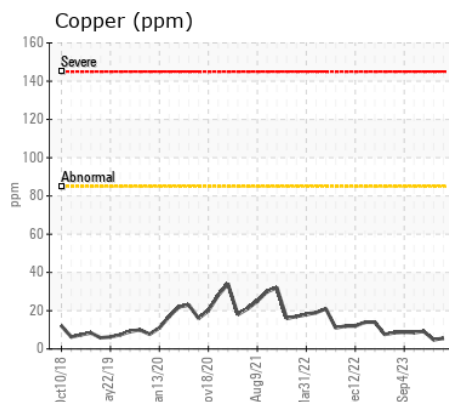
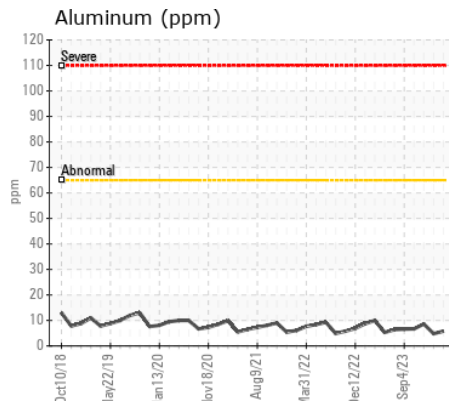
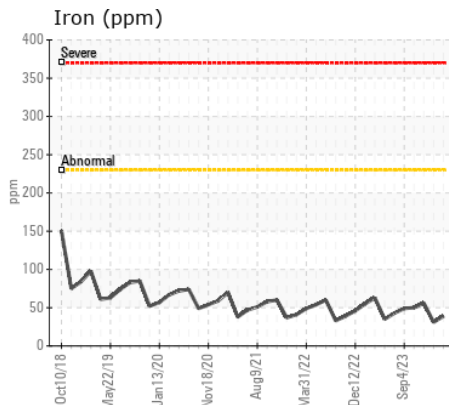
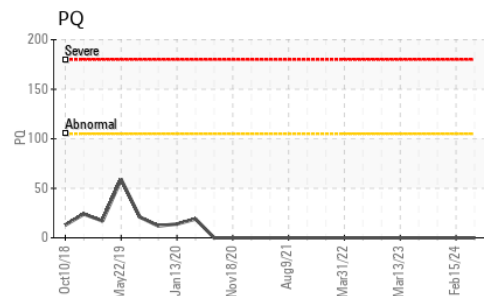
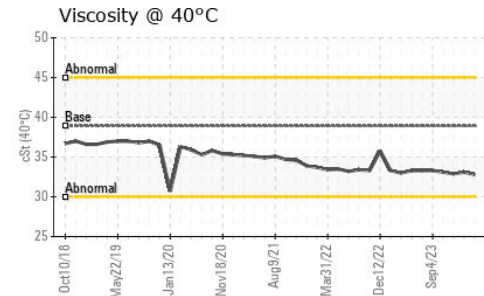
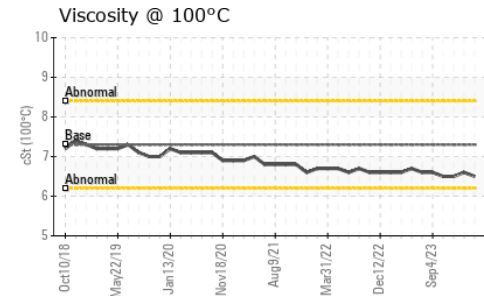
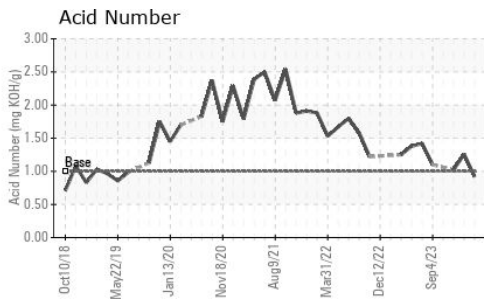
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>20	3	4	6
Potassium	ppm	ASTM D5185(m)	>20	1	1	2
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	VLITE	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)		3	2	4
Boron	ppm	ASTM D5185(m)	150	75	72	78
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	3	4	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)	0	1	<1	1
Calcium	ppm	ASTM D5185(m)	40	136	132	126
Phosphorus	ppm	ASTM D5185(m)	320	234	221	261
Zinc	ppm	ASTM D5185(m)	5	5	5	5
Sulfur	ppm	ASTM D5185(m)	1050	1486	1542	1646
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	0.92	1.26	1.02
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	32.8	33.1	32.9
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	6.5	6.6	6.5
Viscosity Index (VI)	Scale	ASTM D2270*	168	156	159	155



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0889072
Lab Number : 02626445
Unique Number : 5759577
Test Package : MOB 2 (Additional Tests: KV100, PQ, VI)
Received : 03 Apr 2024
Tested : 04 Apr 2024
Diagnosed : 04 Apr 2024 - Wes Davis

CITY OF THUNDER BAY
 AUTO MAINTENANCE STORES, 570 FORT WILLIAM ROAD
 THUNDER BAY, ON
 CA P7B 2Z8
 Contact: Sean Malcolm
 sean.malcolm@thunderbay.ca
 T: (807)684-2716
 F: (807)344-0237

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.