



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
239
 Component
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		WC0889130	WC0889101	WC0866639
Sample Date		Client Info		15 Feb 2024	03 Jan 2024	15 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		9212	46723	37734
Filter Age	hrs	Client Info		9212	46723	37734
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184*	>105	0	---	0
Iron	ppm	ASTM D5185(m)	>230	57	104	99
Chromium	ppm	ASTM D5185(m)	>2	0	<1	<1
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	0	<1
Aluminum	ppm	ASTM D5185(m)	>65	17	33	30
Lead	ppm	ASTM D5185(m)	>55	4	8	7
Copper	ppm	ASTM D5185(m)	>85	7	11	10
Tin	ppm	ASTM D5185(m)	>5	2	3	3
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

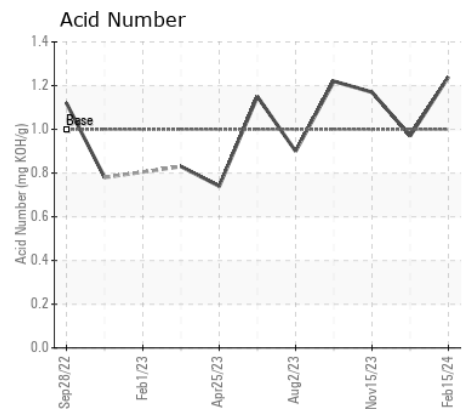
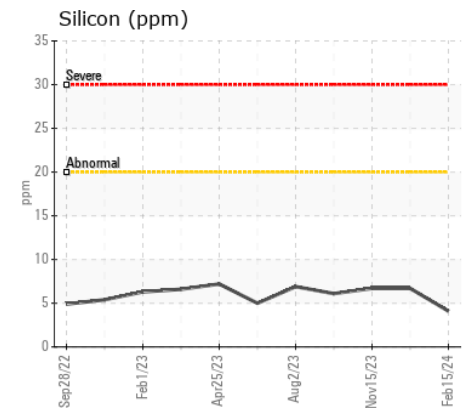
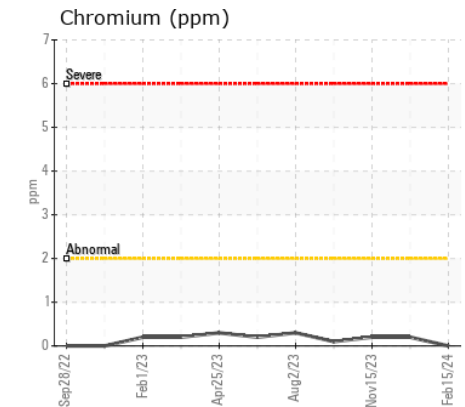
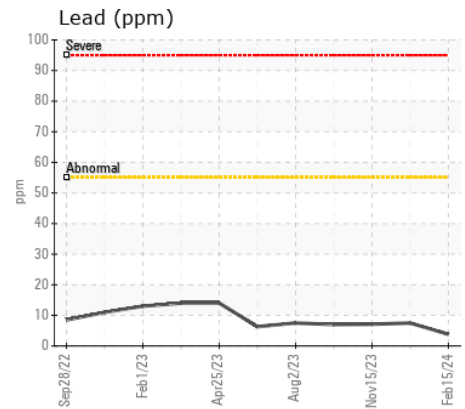
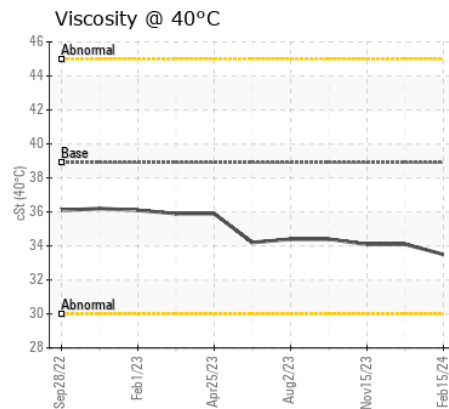
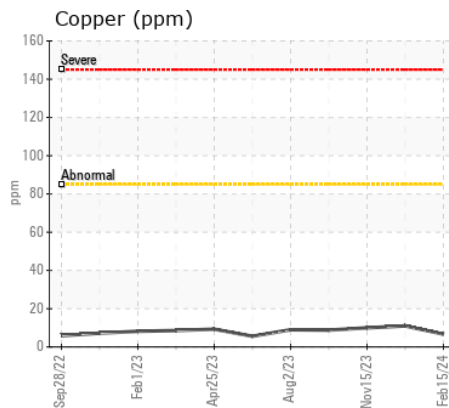
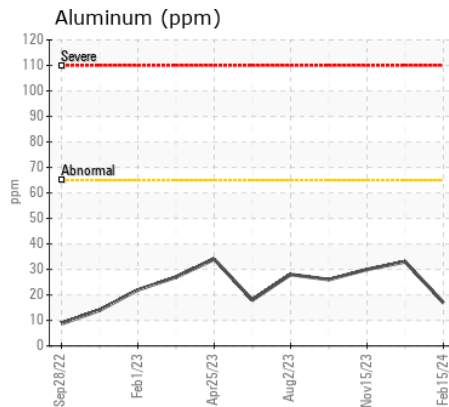
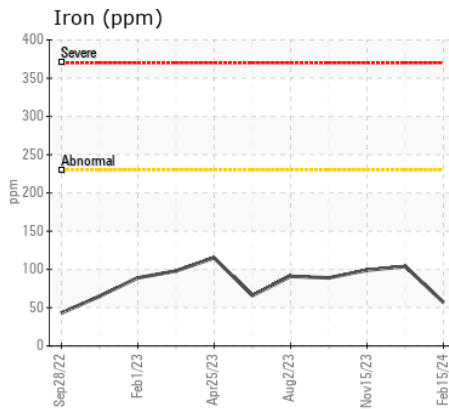
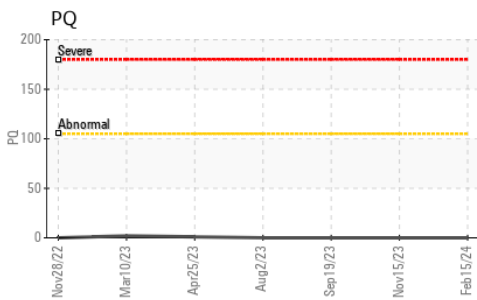
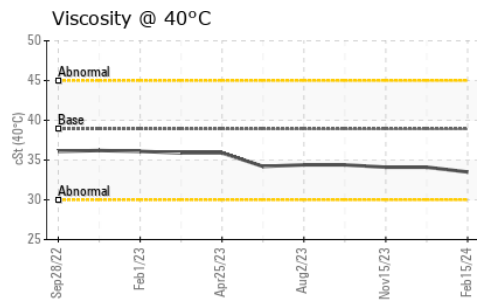
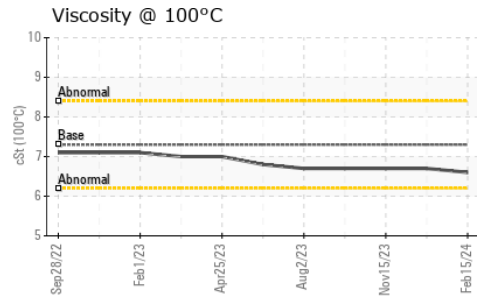
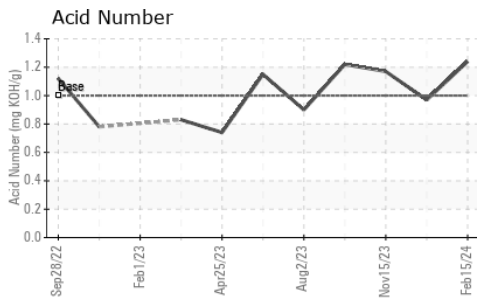
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>20	4	7	7
Potassium	ppm	ASTM D5185(m)	>20	2	2	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 AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

Sodium	ppm	ASTM D5185(m)		3	5	6
Boron	ppm	ASTM D5185(m)	150	62	58	61
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	5	0	0
Manganese	ppm	ASTM D5185(m)		<1	1	1
Magnesium	ppm	ASTM D5185(m)	0	<1	1	<1
Calcium	ppm	ASTM D5185(m)	40	123	100	100
Phosphorus	ppm	ASTM D5185(m)	320	207	226	227
Zinc	ppm	ASTM D5185(m)	5	6	6	6
Sulfur	ppm	ASTM D5185(m)	1050	1336	1212	1146
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	1.24	0.97	1.17
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	33.5	34.1	34.1
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	6.6	6.7	6.7
Viscosity Index (VI)	Scale	ASTM D2270*	168	156	157	157



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0889130
Lab Number : 02618722
Unique Number : 5735832
Test Package : MOB 2 (Additional Tests: KV100, PQ, TAN Man, VI)

Received : 28 Feb 2024
Tested : 28 Feb 2024
Diagnosed : 28 Feb 2024 - Wes Davis

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.

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