



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
165
 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		WC0866622	WC0889004	WC0889160
Sample Date		Client Info		27 May 2024	08 Apr 2024	30 Jan 2024
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		17933	9142	47318
Filter Age	kms	Client Info		17933	9142	47318
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.

PQ		ASTM D8184*	>105	0	---	---
Iron	ppm	ASTM D5185(m)	>230	32	29	51
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	12	11	20
Lead	ppm	ASTM D5185(m)	>55	3	3	7
Copper	ppm	ASTM D5185(m)	>85	8	8	13
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

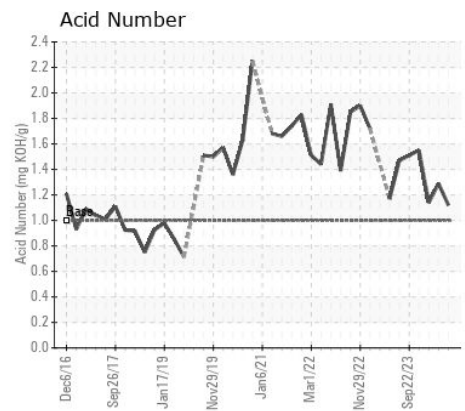
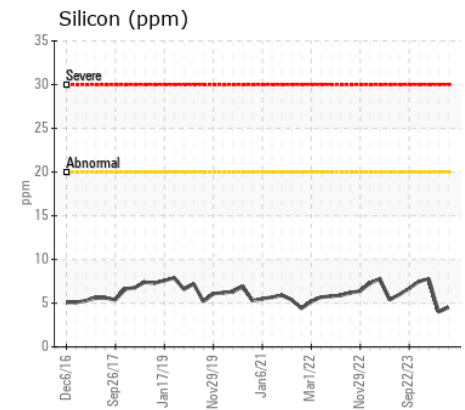
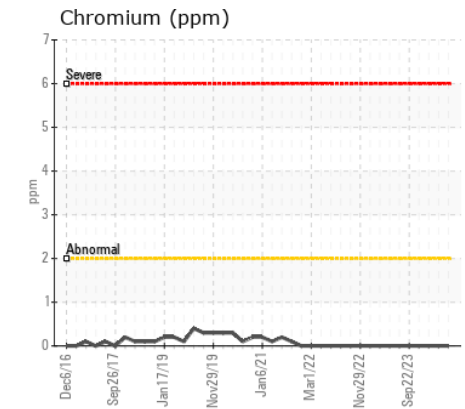
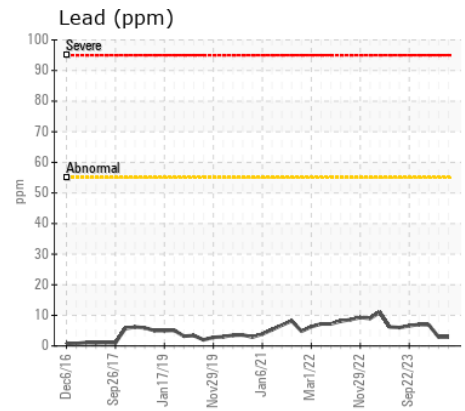
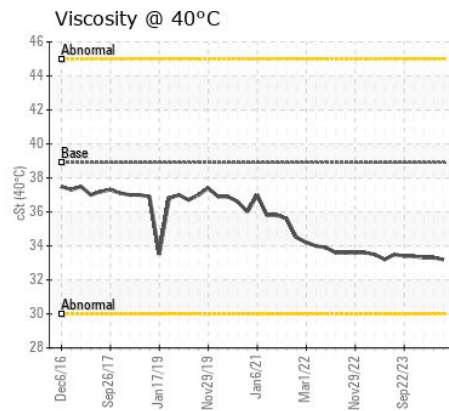
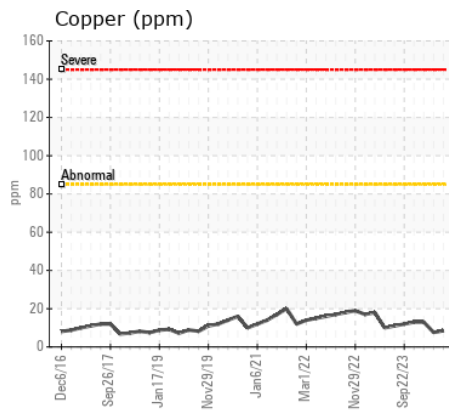
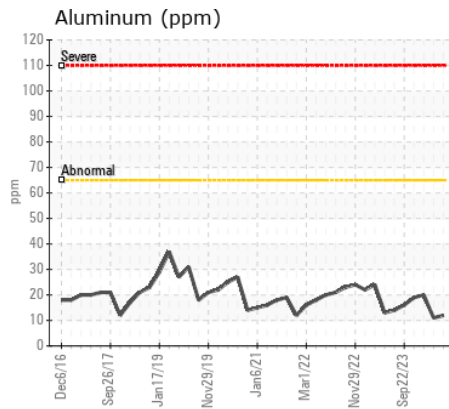
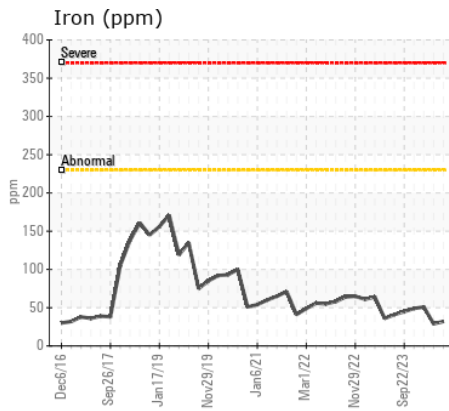
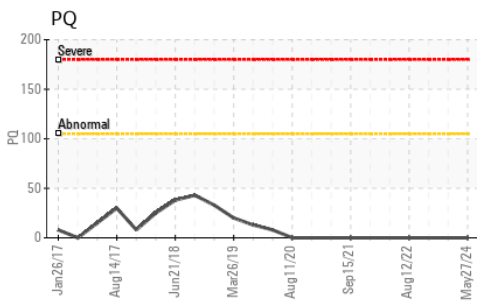
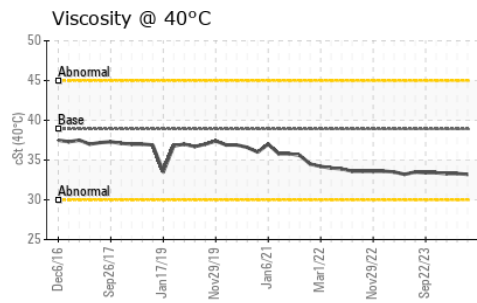
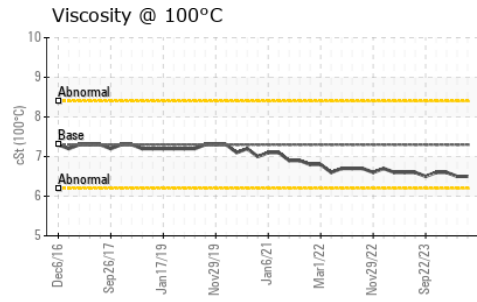
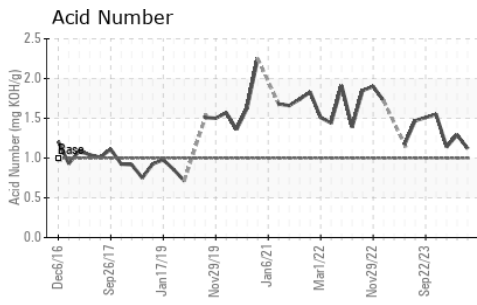
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>20	4	4	8
Potassium	ppm	ASTM D5185(m)	>20	2	1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE	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)		5	4	7
Boron	ppm	ASTM D5185(m)	150	84	80	88
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	6	6	0
Manganese	ppm	ASTM D5185(m)		<1	<1	0
Magnesium	ppm	ASTM D5185(m)	0	1	<1	<1
Calcium	ppm	ASTM D5185(m)	40	140	141	121
Phosphorus	ppm	ASTM D5185(m)	320	244	245	286
Zinc	ppm	ASTM D5185(m)	5	6	6	4
Sulfur	ppm	ASTM D5185(m)	1050	1519	1517	1686
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	1.12	1.29	1.14
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	33.2	33.3	33.3
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	6.5	6.5	6.6
Viscosity Index (VI)	Scale	ASTM D2270*	168	153	152	158



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0866622
Lab Number : 02639437
Unique Number : 5788599
Test Package : MOB 2 (Additional Tests: KV100, PQ, VI)

Received : 03 Jun 2024
Tested : 03 Jun 2024
Diagnosed : 03 Jun 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.