



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
167
 Component
Rear Transmission (Auto)
 Fluid
CASTROL TRANSYND (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the fluid from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0888990	WC0889093	WC0866497
Sample Date		Client Info		15 Apr 2024	15 Jan 2024	29 Nov 2023
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		27801	18994	9731
Filter Age	kms	Client Info		27801	18994	9731
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	SEVERE

WEAR

All component wear rates are normal.

PQ		ASTM D8184*	>105	0	1	---
Iron	ppm	ASTM D5185(m)	>230	162	135	105
Chromium	ppm	ASTM D5185(m)	>2	<1	<1	0
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	11	10	8
Lead	ppm	ASTM D5185(m)	>55	4	4	4
Copper	ppm	ASTM D5185(m)	>85	16	13	11
Tin	ppm	ASTM D5185(m)	>5	<1	<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

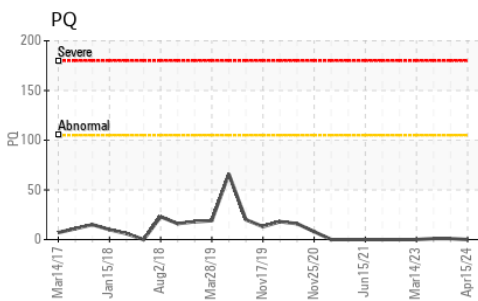
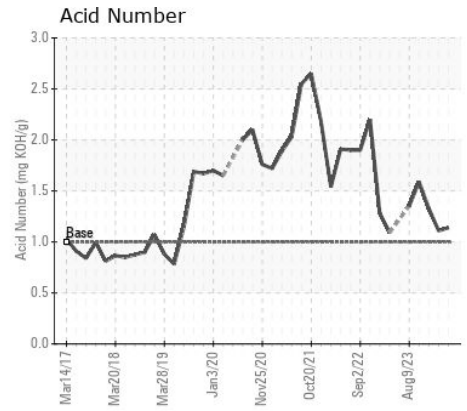
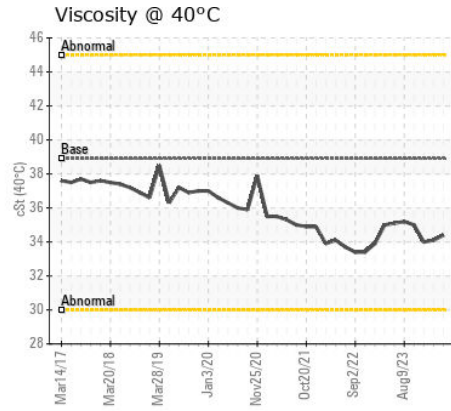
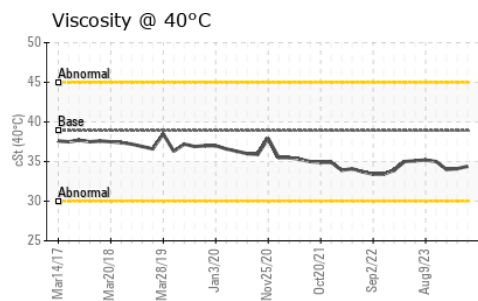
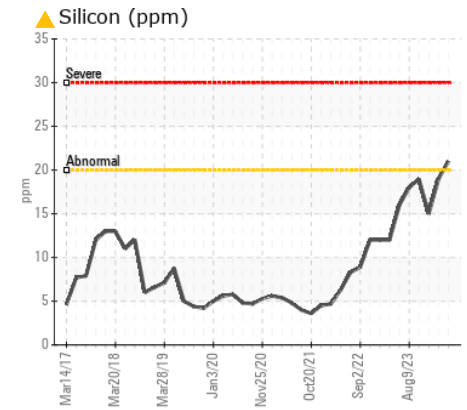
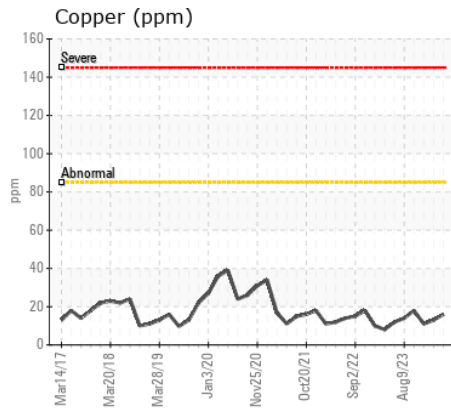
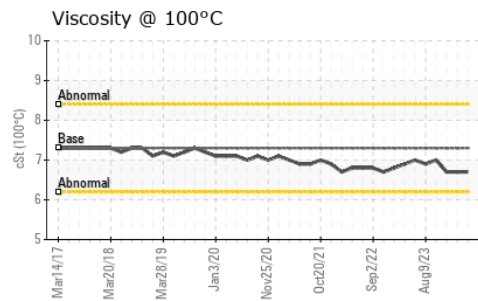
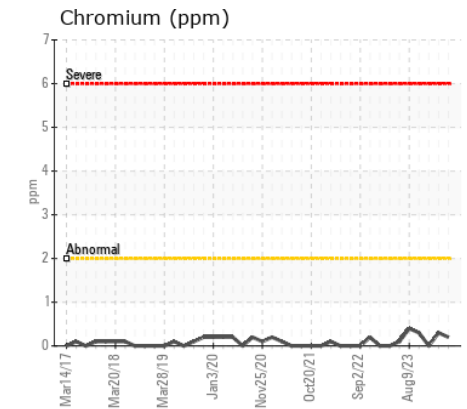
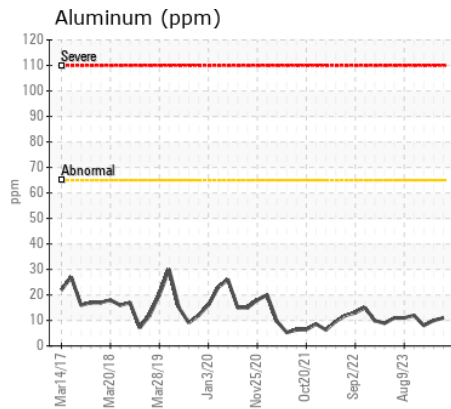
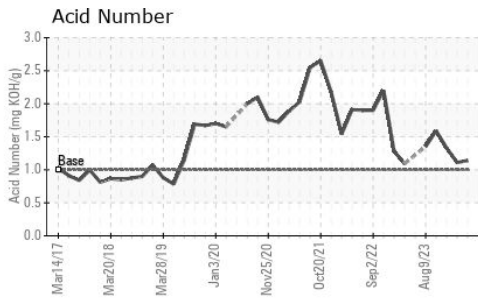
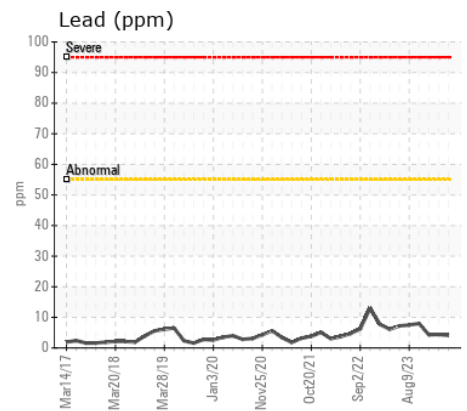
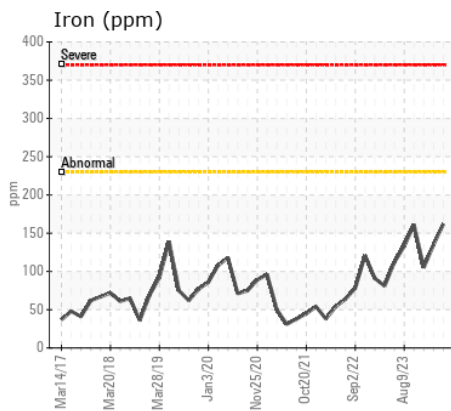
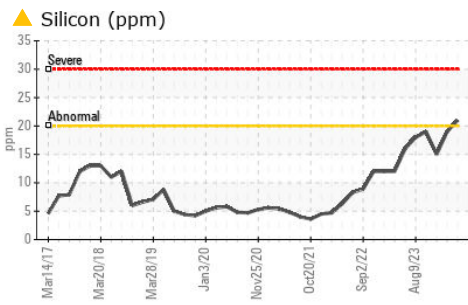
There is a moderate concentration of dirt present in the fluid.

Silicon	ppm	ASTM D5185(m)	>20	▲ 21	19	15
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 fluid is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		7	7	6
Boron	ppm	ASTM D5185(m)	150	82	83	89
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	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	110	112	119
Phosphorus	ppm	ASTM D5185(m)	320	242	250	248
Zinc	ppm	ASTM D5185(m)	5	5	4	6
Sulfur	ppm	ASTM D5185(m)	1050	1257	1418	1335
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	1.14	1.11	1.33
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	34.4	34.1	34.0
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	6.7	6.7	6.7
Viscosity Index (VI)	Scale	ASTM D2270*	168	155	157	158



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0888990 **Received** : 22 Apr 2024
Lab Number : 02630652 **Tested** : 23 Apr 2024
Unique Number : 5763784 **Diagnosed** : 23 Apr 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: KV100, PQ, VI)

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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.