



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
179
 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		WC0866623	WC0889016	WC0889078
Sample Date		Client Info		06 Jun 2024	22 Apr 2024	28 Feb 2024
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		46853	38297	29318
Filter Age	kms	Client Info		46853	38297	29318
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	75	69	59
Chromium	ppm	ASTM D5185(m)	>2	<1	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	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	34	32	25
Lead	ppm	ASTM D5185(m)	>55	3	3	3
Copper	ppm	ASTM D5185(m)	>85	9	8	7
Tin	ppm	ASTM D5185(m)	>5	<1	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

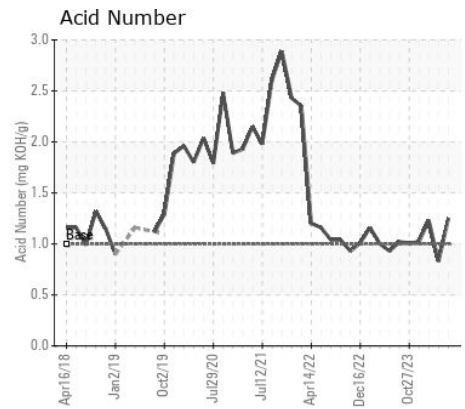
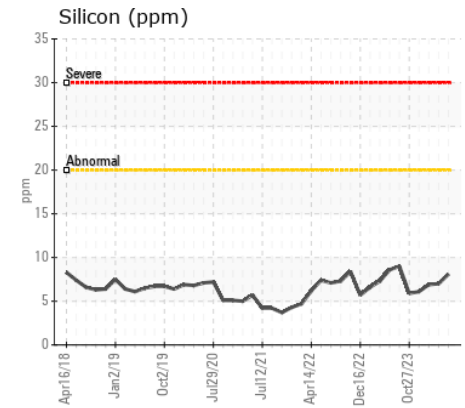
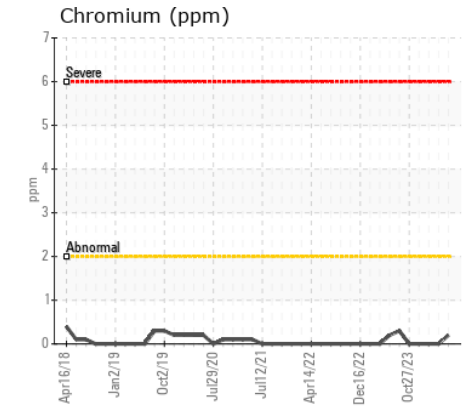
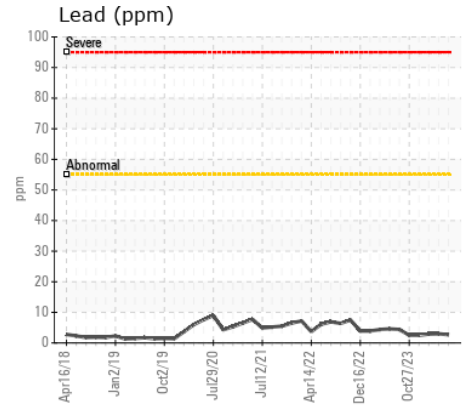
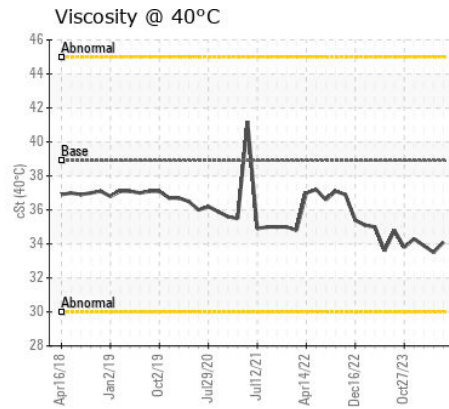
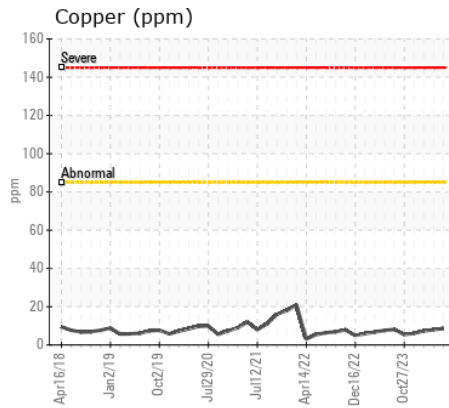
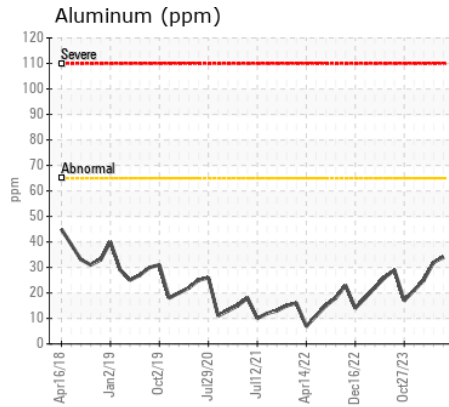
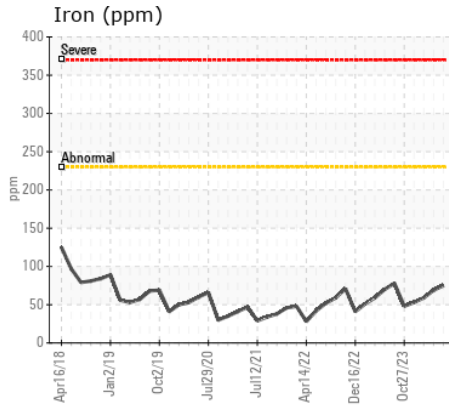
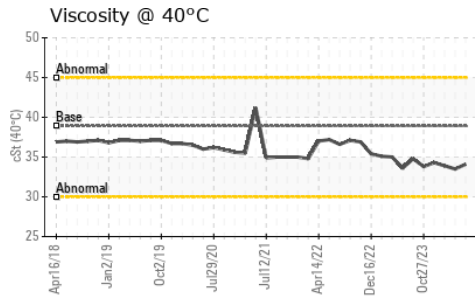
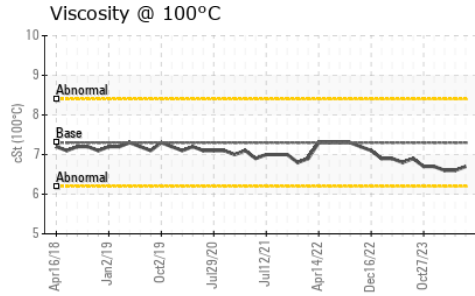
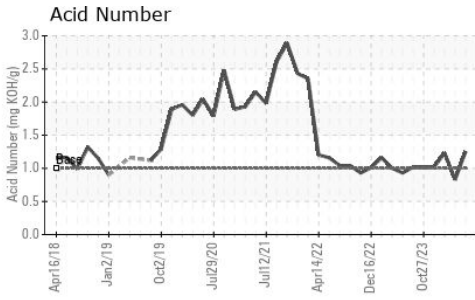
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>20	8	7	7
Potassium	ppm	ASTM D5185(m)	>20	2	2	3
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)		6	6	6
Boron	ppm	ASTM D5185(m)	150	66	64	65
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	2	2	2
Calcium	ppm	ASTM D5185(m)	40	110	112	110
Phosphorus	ppm	ASTM D5185(m)	320	220	230	226
Zinc	ppm	ASTM D5185(m)	5	8	8	8
Sulfur	ppm	ASTM D5185(m)	1050	1196	1208	1281
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	1.25	0.83	1.23
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	34.1	33.5	33.9
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	6.7	6.6	6.6
Viscosity Index (VI)	Scale	ASTM D2270*	168	157	156	153



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0866623
Lab Number : 02643773
Unique Number : 5801312
Test Package : MOB 2 (Additional Tests: KV100, TAN Man, VI)

Received : 24 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 25 Jun 2024 - Wes Davis

CITY OF THUNDER BAY
 AUTO MAINTENANCE STORES, 570 FORT WILLIAM ROAD
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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.