



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
166
 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.

WEAR

All component wear rates are normal.

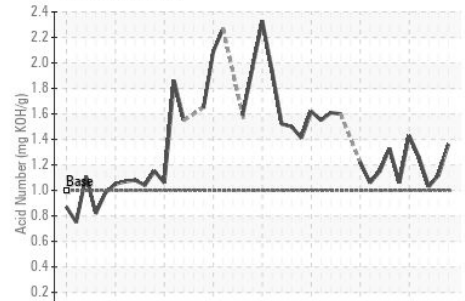
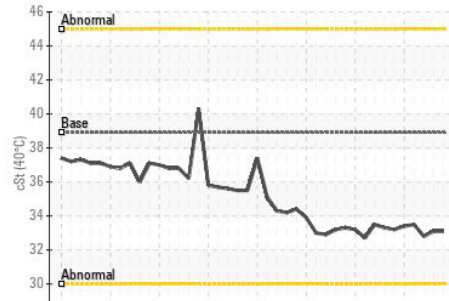
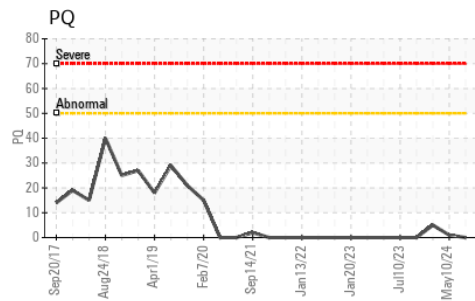
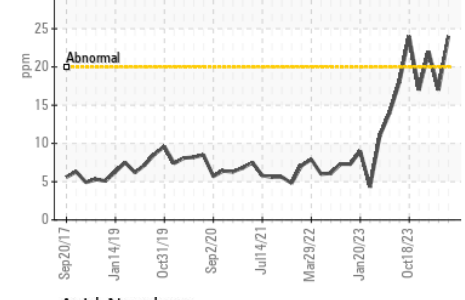
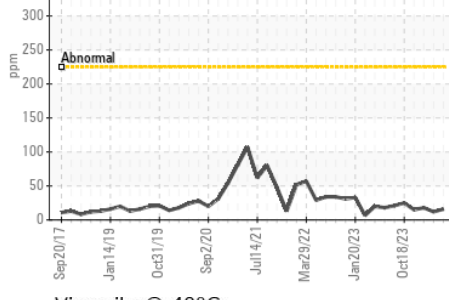
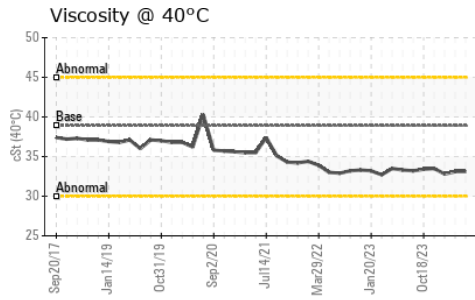
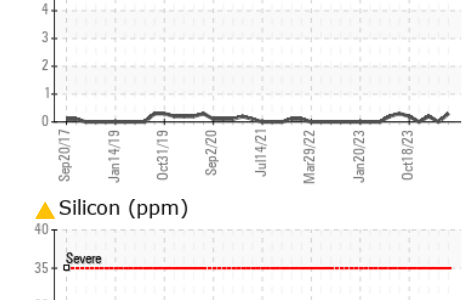
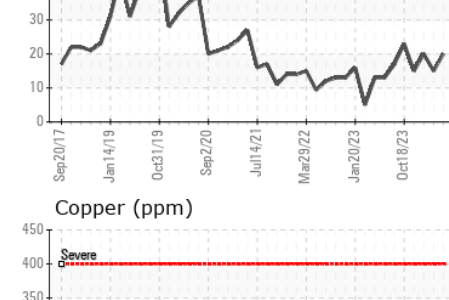
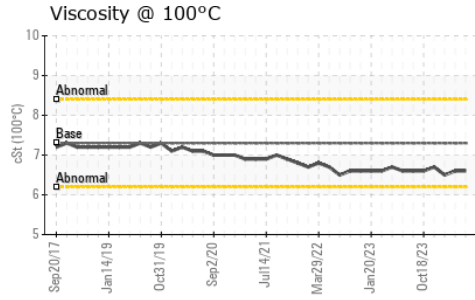
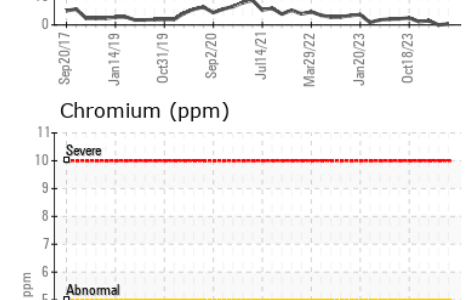
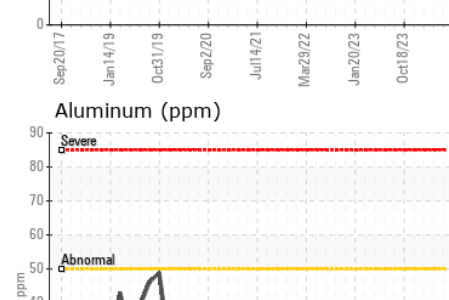
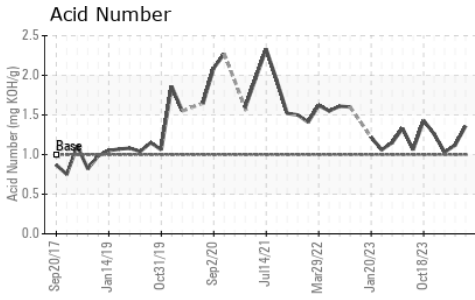
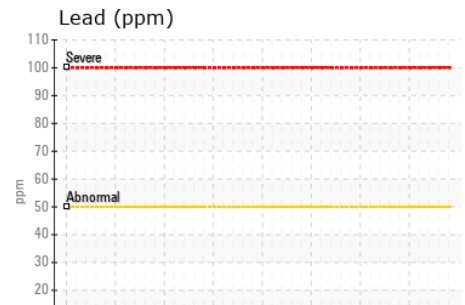
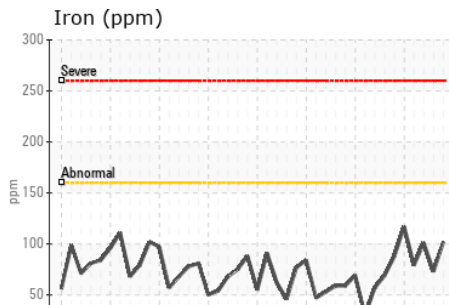
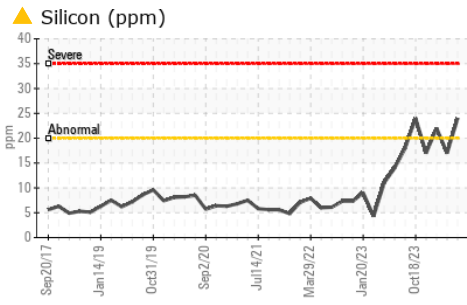
CONTAMINATION

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

FLUID CONDITION

The AN level is acceptable for this fluid. The fluid is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0866509	WC0888976	WC0889118
Sample Date		Client Info		24 Jun 2024	10 May 2024	22 Feb 2024
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		18025	8633	18245
Filter Age	kms	Client Info		18025	8633	18245
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
PQ		ASTM D8184*	>50	0	1	5
Iron	ppm	ASTM D5185(m)	>160	102	73	101
Chromium	ppm	ASTM D5185(m)	>5	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>50	20	15	20
Lead	ppm	ASTM D5185(m)	>50	<1	0	2
Copper	ppm	ASTM D5185(m)	>225	16	12	18
Tin	ppm	ASTM D5185(m)	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>20	▲ 24	17	▲ 22
Potassium	ppm	ASTM D5185(m)	>20	1	<1	1
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	VLITE	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
Sodium	ppm	ASTM D5185(m)		4	3	4
Boron	ppm	ASTM D5185(m)	150	67	71	64
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	<1
Magnesium	ppm	ASTM D5185(m)	0	<1	1	1
Calcium	ppm	ASTM D5185(m)	40	144	144	127
Phosphorus	ppm	ASTM D5185(m)	320	214	224	226
Zinc	ppm	ASTM D5185(m)	5	6	5	3
Sulfur	ppm	ASTM D5185(m)	1050	1483	1507	1569
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	1.36	1.12	1.03
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	33.1	33.1	32.8
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	6.6	6.6	6.5
Viscosity Index (VI)	Scale	ASTM D2270*	168	159	159	156



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0866509 **Received** : 04 Jul 2024
Lab Number : 02645539 **Tested** : 05 Jul 2024
Unique Number : 5803078 **Diagnosed** : 05 Jul 2024 - Kevin Marson
Test Package : MOB 2 (Additional Tests: KV100, PQ, TAN Man, VI)

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.