



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id

178

Component

Rear Transmission (Auto)

Fluid

CASTROL TRANSYND (24 LTR)

RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

WEAR

All component wear rates are normal.

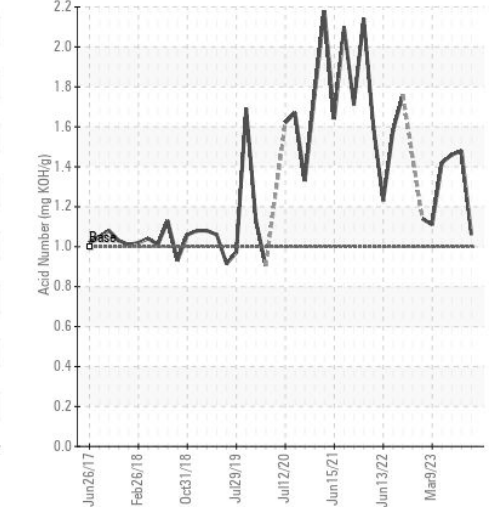
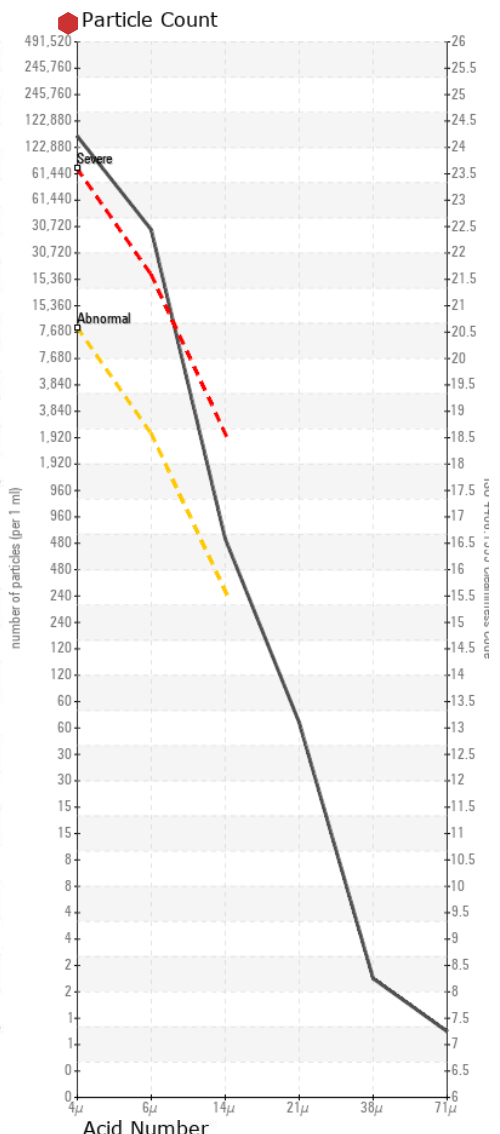
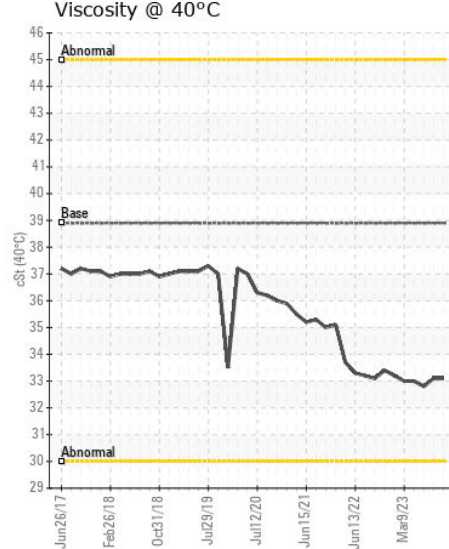
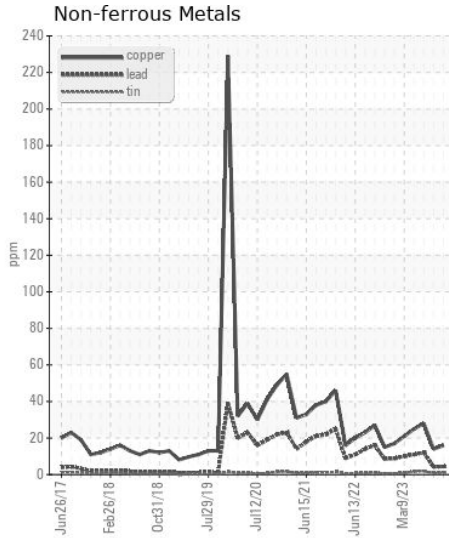
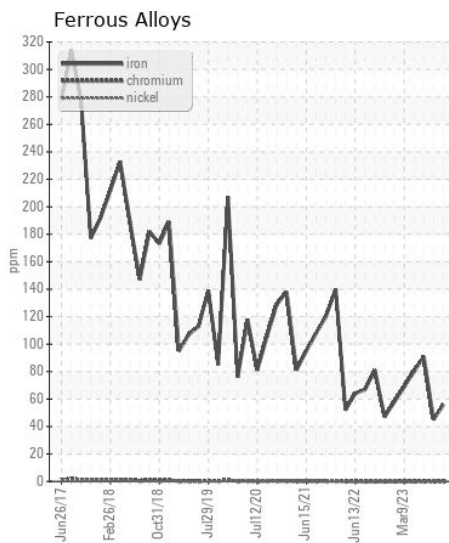
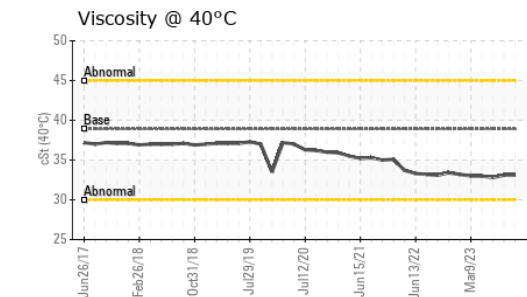
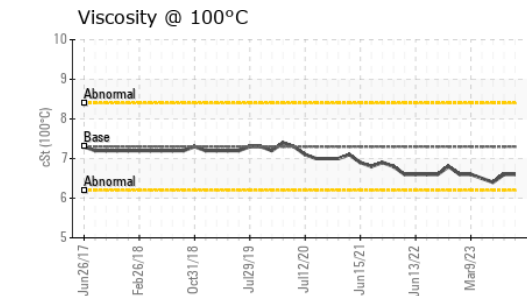
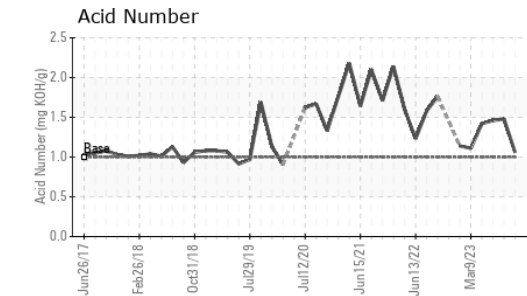
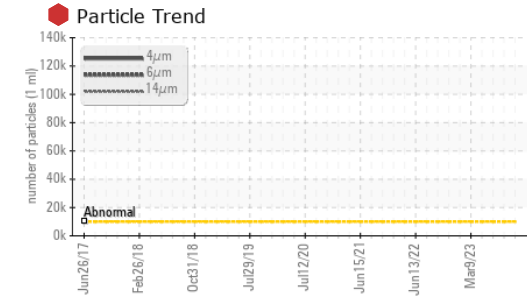
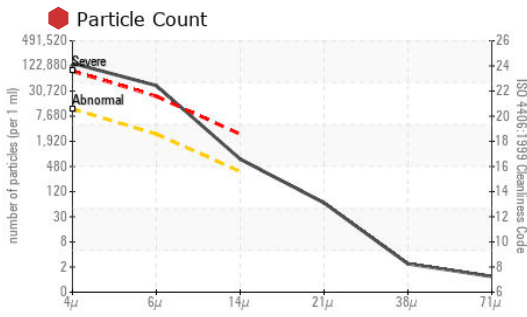
CONTAMINATION

There is a high amount of silt (particulates < 14 microns in size) present in the fluid.

FLUID CONDITION

The AN level is acceptable for this fluid. The fluid is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0889180	WC0816355	WC0816564
Sample Date		Client Info		27 Dec 2023	06 Oct 2023	19 Jun 2023
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		29631	19798	47740
Filter Age	kms	Client Info		29631	19798	47740
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>230	56	45	91
Chromium	ppm	ASTM D5185(m)	>2	0	0	<1
Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>5	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>65	10	8	20
Lead	ppm	ASTM D5185(m)	>55	4	4	12
Copper	ppm	ASTM D5185(m)	>85	16	14	28
Tin	ppm	ASTM D5185(m)	>5	1	<1	2
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>20	5	4	6
Potassium	ppm	ASTM D5185(m)	>20	1	<1	1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>10000	122671	---	---
Particles >6µm		ASTM D7647	>2500	36005	---	---
Particles >14µm		ASTM D7647	>320	632	---	---
Particles >21µm		ASTM D7647	>80	57	---	---
Particles >38µm		ASTM D7647	>20	2	---	---
Particles >71µm		ASTM D7647	>4	1	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	24/22/16	---	---
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
Sodium	ppm	ASTM D5185(m)		2	3	5
Boron	ppm	ASTM D5185(m)	150	69	72	85
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	<1
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)	0	1	<1	2
Calcium	ppm	ASTM D5185(m)	40	125	123	121
Phosphorus	ppm	ASTM D5185(m)	320	232	231	293
Zinc	ppm	ASTM D5185(m)	5	4	4	6
Sulfur	ppm	ASTM D5185(m)	1050	1610	1721	1610
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	1.06	1.48	1.46
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	6.4
Viscosity Index (VI)	Scale	ASTM D2270*	168	159	159	150



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0889180 **Received** : 05 Jan 2024
Lab Number : 02606811 **Diagnosed** : 08 Jan 2024
Unique Number : 5707897 **Diagnostician** : Wes Davis
Test Package : MOB 2 (Additional Tests: KV100, PrtCount, 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.