



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
241
Component
Transmission (Auto)
Fluid
CASTROL TRANSYND (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0889110	WC0866429	WC0816435
Sample Date		Client Info		08 Jan 2024	23 Nov 2023	22 Jun 2023
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		29760	20135	10877
Filter Age	kms	Client Info		29760	20135	10877
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>230	86	67	46
Chromium	ppm	ASTM D5185(m)	>2	0	0	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	<1	0
Aluminum	ppm	ASTM D5185(m)	>65	15	11	8
Lead	ppm	ASTM D5185(m)	>55	3	2	<1
Copper	ppm	ASTM D5185(m)	>85	13	11	7
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

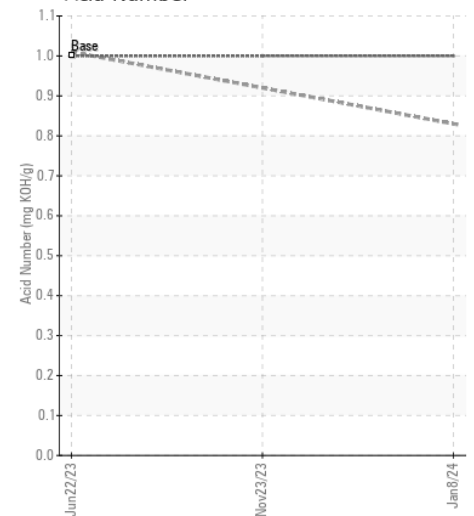
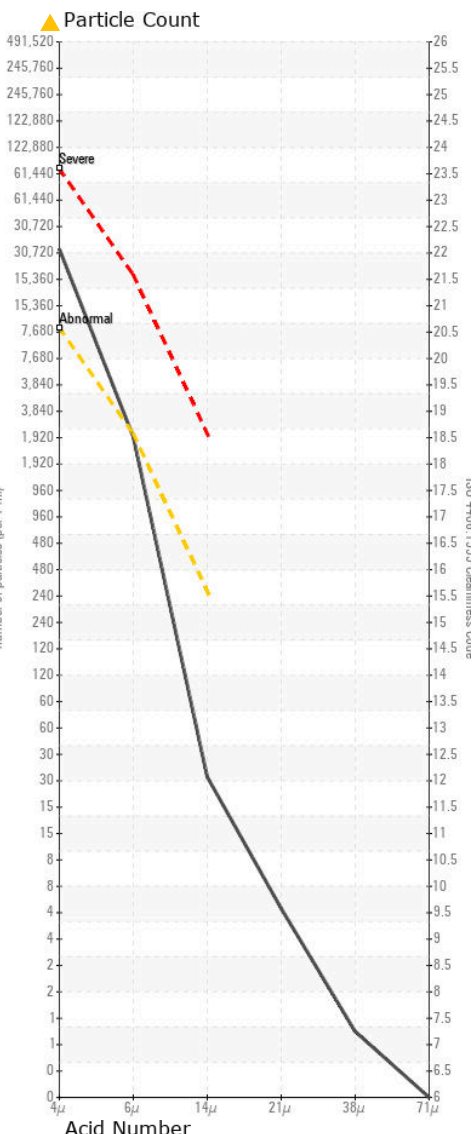
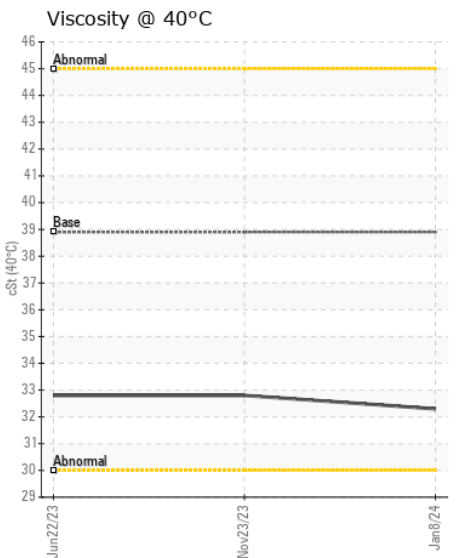
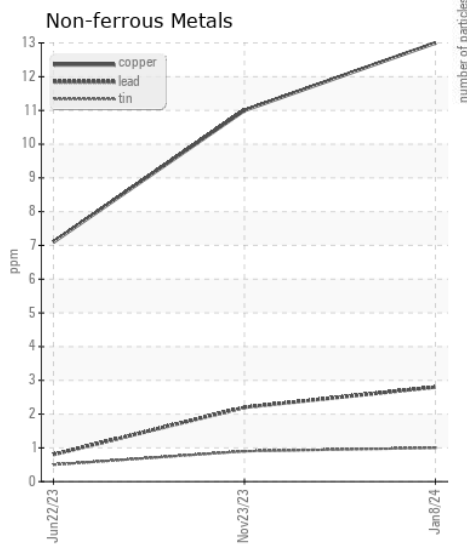
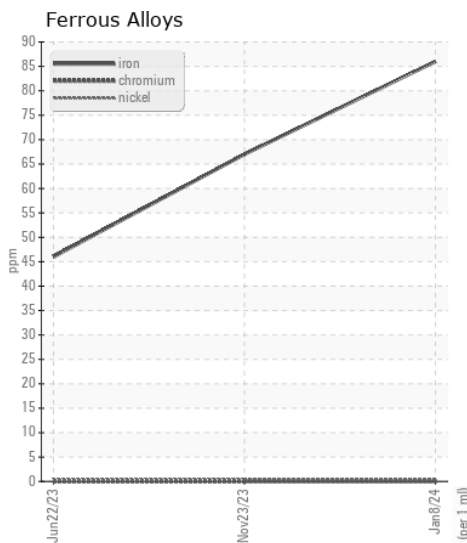
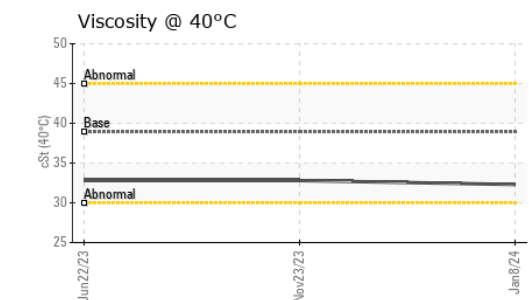
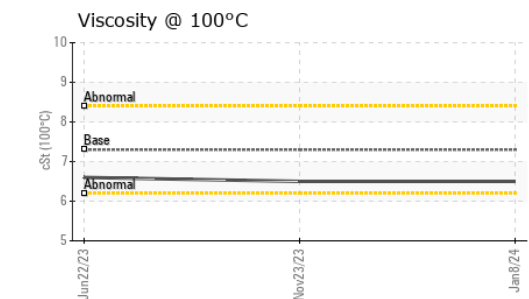
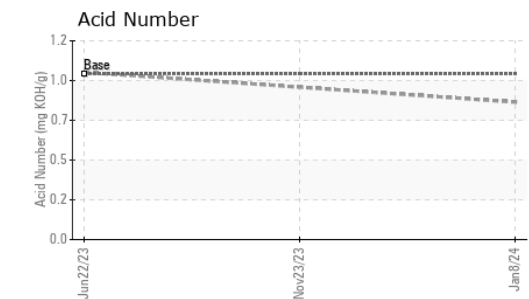
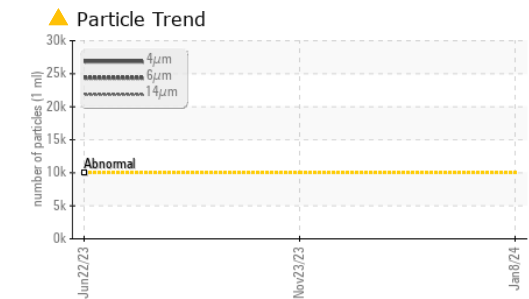
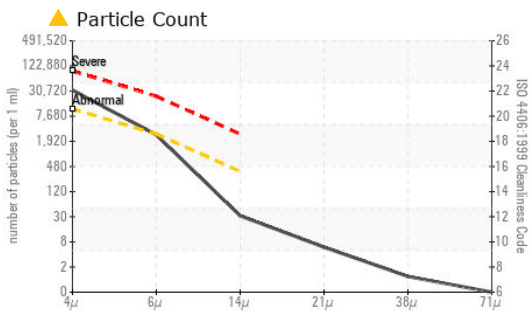
There is a moderate amount of silt (particulates < 14 microns in size) present in the fluid.

Silicon	ppm	ASTM D5185(m)	>20	5	5	4
Potassium	ppm	ASTM D5185(m)	>20	2	<1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>10000	▲ 28055	---	---
Particles >6µm		ASTM D7647	>2500	2402	---	---
Particles >14µm		ASTM D7647	>320	28	---	---
Particles >21µm		ASTM D7647	>80	5	---	---
Particles >38µm		ASTM D7647	>20	1	---	---
Particles >71µm		ASTM D7647	>4	0	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ 22/18/12	---	---
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	VLITE
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 still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185(m)		4	4	4
Boron	ppm	ASTM D5185(m)	150	44	47	50
Barium	ppm	ASTM D5185(m)	0	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	0	0	<1
Manganese	ppm	ASTM D5185(m)		1	<1	1
Magnesium	ppm	ASTM D5185(m)	0	1	<1	1
Calcium	ppm	ASTM D5185(m)	40	116	115	118
Phosphorus	ppm	ASTM D5185(m)	320	203	204	217
Zinc	ppm	ASTM D5185(m)	5	6	6	6
Sulfur	ppm	ASTM D5185(m)	1050	1552	1445	1502
Acid Number (AN)	mg KOH/g	ASTM D974*	1.0	0.83	---	1.01
Visc @ 40°C	cSt	ASTM D7279(m)	38.9	32.3	32.8	32.8
Visc @ 100°C	cSt	ASTM D7279(m)	7.3	6.5	6.5	6.6
Viscosity Index (VI)	Scale	ASTM D2270*	168	160	156	161



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0889110 **Received** : 12 Jan 2024
Lab Number : 02608602 **Diagnosed** : 16 Jan 2024
Unique Number : 5709688 **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.