



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
Contracting
Machine Id
8002 8002
Component
Transmission (Manual)
Fluid
SAE 40W (5 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0918695	WC0861734	WC0770982
Sample Date		Client Info		22 Apr 2024	21 Nov 2023	05 Jun 2023
Machine Age	hrs	Client Info		9619	8778	7525
Oil Age	hrs	Client Info		3365	2524	1318
Filter Age	hrs	Client Info		3365	2524	1318
Oil Changed		Client Info		Changed	Not Changed	Changed
Filter Changed		Client Info		Changed	Not Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	40	30	48
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	0
Lead	ppm	ASTM D5185m	>45	0	<1	0
Copper	ppm	ASTM D5185m	>225	35	30	49
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

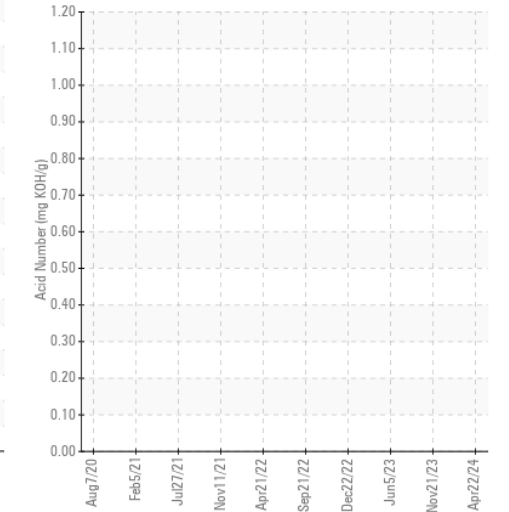
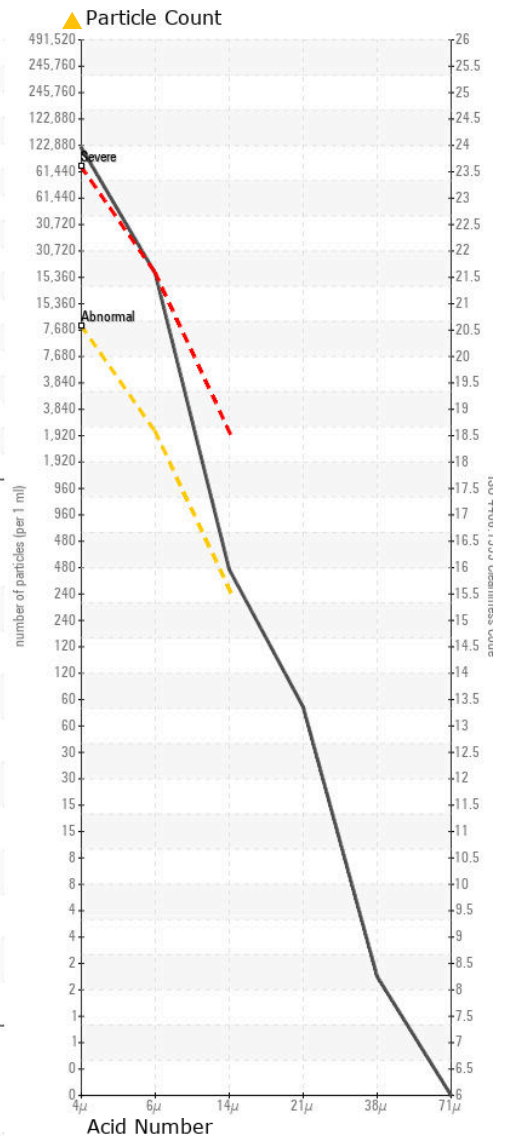
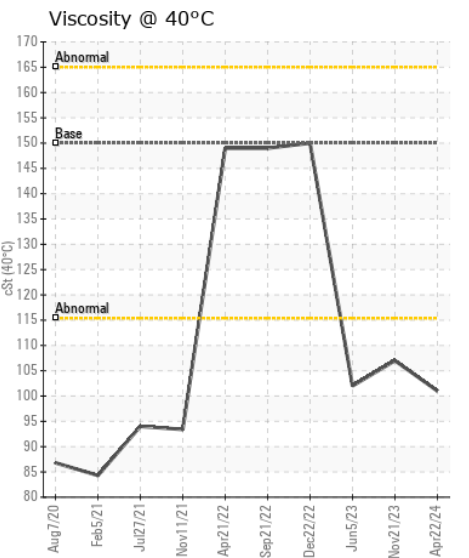
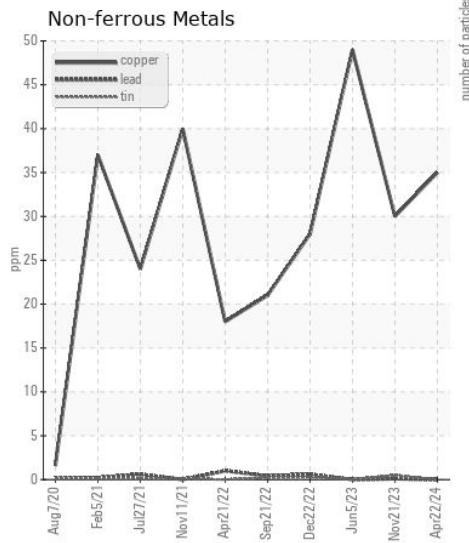
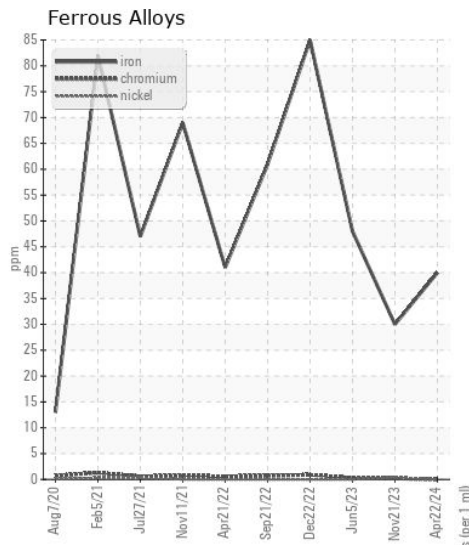
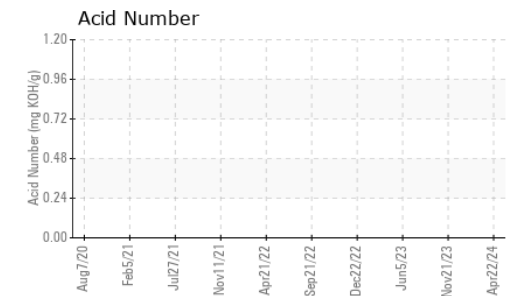
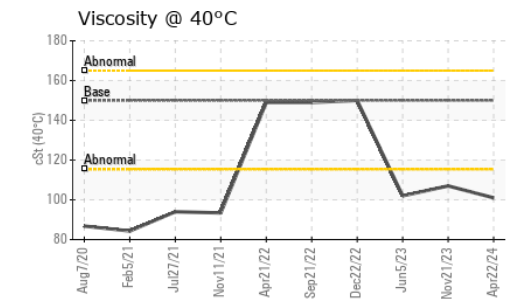
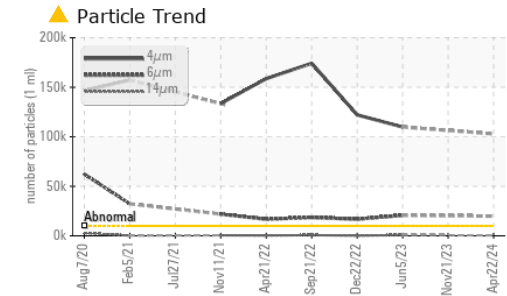
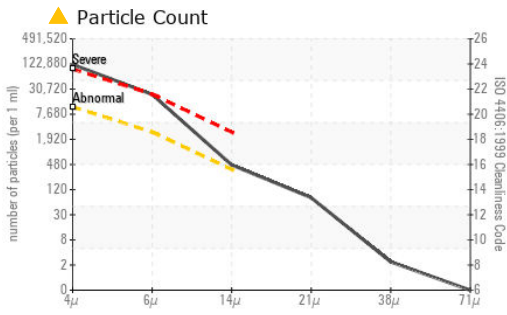
There is a high amount of particulates present in the fluid.

Silicon	ppm	ASTM D5185m	>125	2	2	3
Potassium	ppm	ASTM D5185m	>20	<1	2	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>10000	▲ 102932	---	▲ 109817
Particles >6µm		ASTM D7647	>2500	▲ 19835	---	▲ 20725
Particles >14µm		ASTM D7647	>320	▲ 412	---	▲ 790
Particles >21µm		ASTM D7647	>80	▲ 68	---	▲ 140
Particles >38µm		ASTM D7647	>20	2	---	6
Particles >71µm		ASTM D7647	>4	0	---	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ 24/21/16	---	▲ 24/22/17
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	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 condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		1	0	5
Boron	ppm	ASTM D5185m		199	231	228
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	1	1
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		2	4	9
Calcium	ppm	ASTM D5185m		261	275	653
Phosphorus	ppm	ASTM D5185m		1120	1002	1187
Zinc	ppm	ASTM D5185m		115	100	293
Sulfur	ppm	ASTM D5185m		1748	1084	3147
Visc @ 40°C	cSt	ASTM D445	150	101	107	102



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0918695 Received : 25 Apr 2024
 Lab Number : 06160230 Tested : 26 Apr 2024
 Unique Number : 10995653 Diagnosed : 26 Apr 2024 - Don Baldrige
 Test Package : CONST (Additional Tests: PrtCount)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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