



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
13549
 Component
Compressor
 Fluid
INGERSOLL-RAND TECHTROL GOLD TL (85 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CCSI2014529	CCSI2014577	CCSI2014606
Sample Date		Client Info		05 Mar 2024	06 Sep 2023	30 May 2023
Machine Age	hrs	Client Info		18439	14101	11742
Oil Age	hrs	Client Info		14443	10135	7746
Filter Age	hrs	Client Info		0	0	0
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 D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	0	0	0
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>50	<1	0	0
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

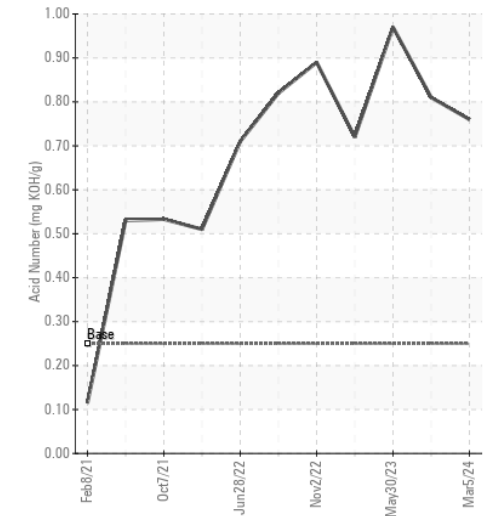
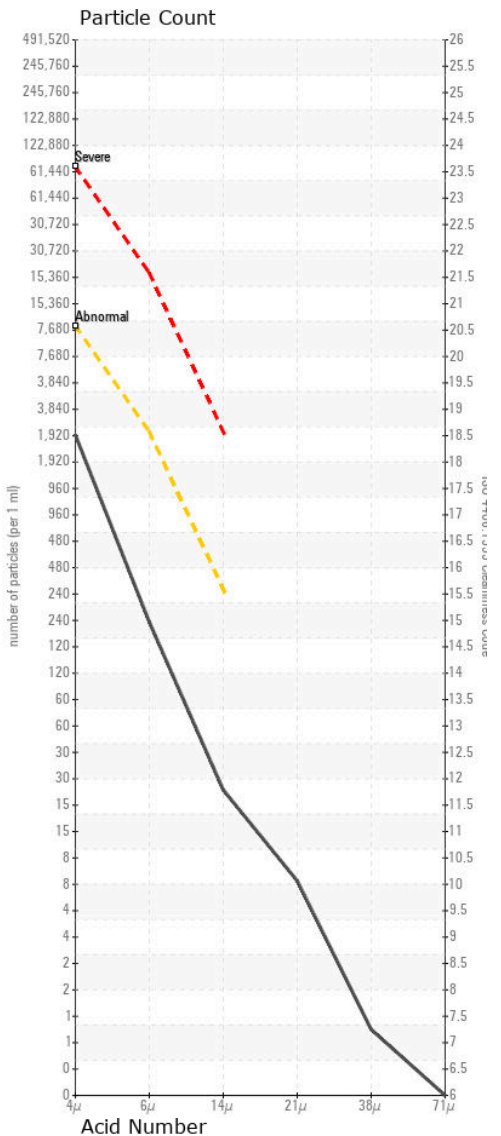
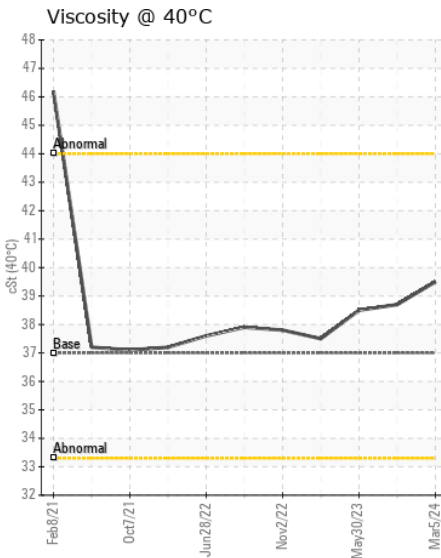
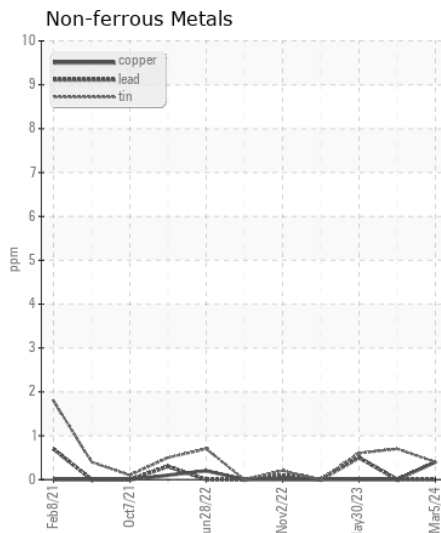
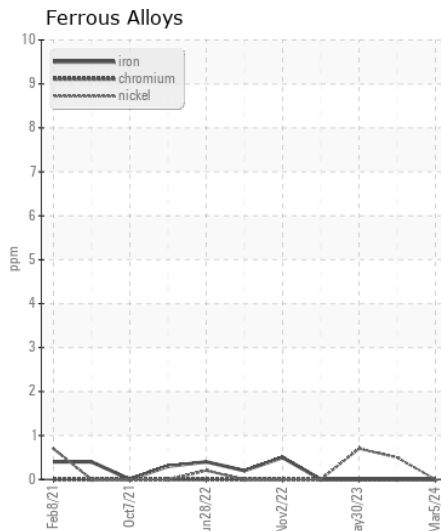
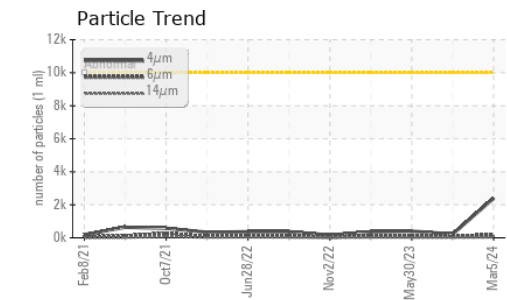
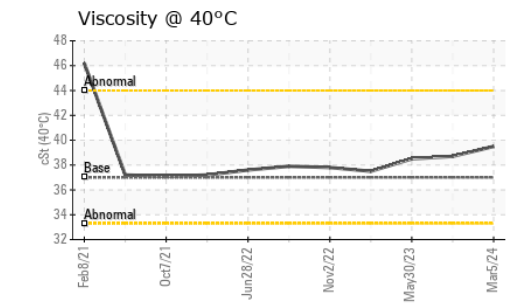
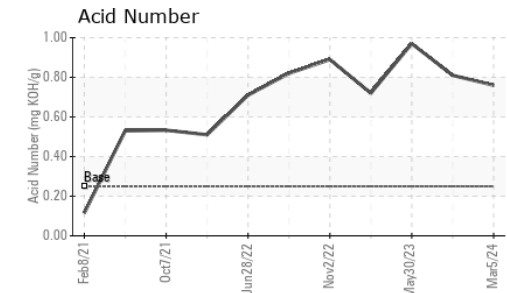
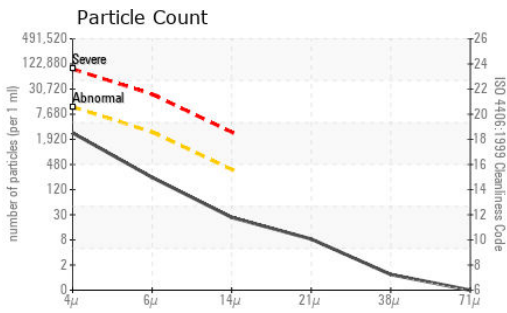
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	<1	0	<1
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>10000	2398	223	405
Particles >6µm		ASTM D7647	>2500	207	69	117
Particles >14µm		ASTM D7647	>320	23	10	9
Particles >21µm		ASTM D7647	>80	7	2	2
Particles >38µm		ASTM D7647	>20	1	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	18/15/12	15/13/10	16/14/10
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 oil is suitable for further service. Color 1.5.

Sodium	ppm	ASTM D5185m		3	0	0
Boron	ppm	ASTM D5185m		0	<1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1	5	3
Calcium	ppm	ASTM D5185m		16	4	5
Phosphorus	ppm	ASTM D5185m		127	123	133
Zinc	ppm	ASTM D5185m		4	16	9
Sulfur	ppm	ASTM D5185m		11	14	8
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	0.76	0.81	0.97
Visc @ 40°C	cSt	ASTM D445	37	39.5	38.7	38.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : CCSI2014529 **Received** : 18 Apr 2024
Lab Number : 06153094 **Tested** : 19 Apr 2024
Unique Number : 10983172 **Diagnosed** : 22 Apr 2024 - Angela Borella
Test Package : IND 2 (Additional Tests: PrtCount)

CLEARWATER PAPER CORP

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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)