



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[21-3685]

Machine Id

RTO INSIDE (S/N 2286)

Component

Bearing

Fluid

CASTROL NON-DETERGENT SAE 30 (30 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0408710	WC0408700	WC12339741
Sample Date		Client Info		17 Feb 2022	23 Apr 2020	23 Oct 2019
Machine Age	mths	Client Info		229	206	200
Oil Age	mths	Client Info		229	206	200
Filter Age	mths	Client Info		229	206	0
Oil Changed		Client Info		Not Changd	Filtered	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	7	7	7
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>20	1	1	1
Lead	ppm	ASTM D5185m	>20	<1	0	<1
Copper	ppm	ASTM D5185m	>20	27	24	24
Tin	ppm	ASTM D5185m	>20	0	0	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

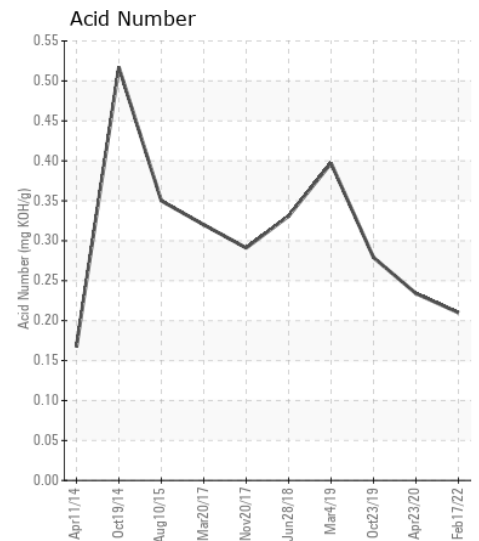
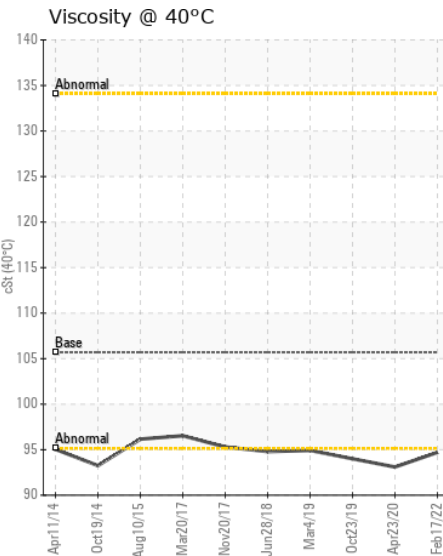
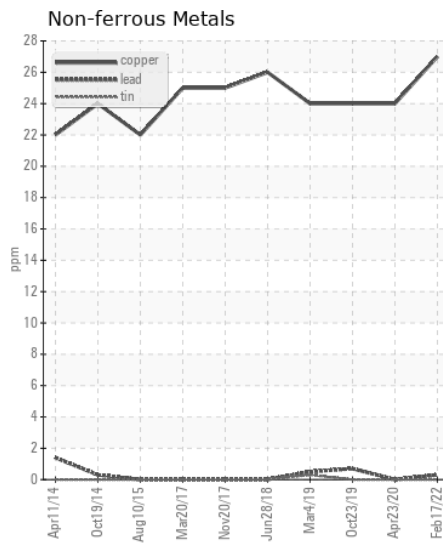
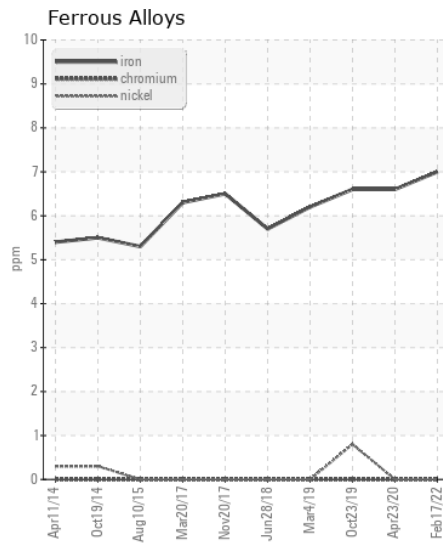
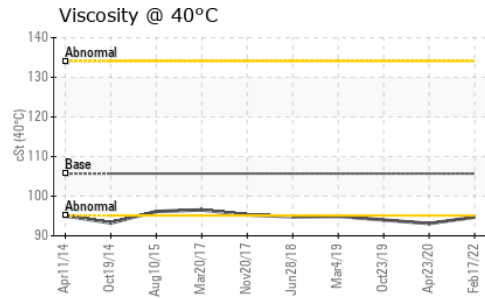
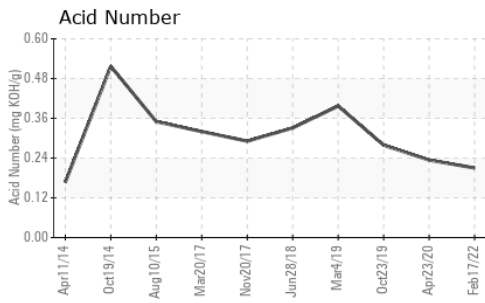
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>15	3	2	2
Potassium	ppm	ASTM D5185m	>20	0	6	14
Water		WC Method	>2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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	>2	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		313	290	282
Boron	ppm	ASTM D5185m		15	12	13
Barium	ppm	ASTM D5185m		4	10	10
Molybdenum	ppm	ASTM D5185m		<1	<1	1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		14	12	11
Calcium	ppm	ASTM D5185m		2493	2455	2299
Phosphorus	ppm	ASTM D5185m		308	276	259
Zinc	ppm	ASTM D5185m		147	154	143
Sulfur	ppm	ASTM D5185m		4408	3922	4073
Acid Number (AN)	mg KOH/g	ASTM D8045		0.21	0.234	0.279
Visc @ 40°C	cSt	ASTM D445	105.7	94.7	93.1	94.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0408710
Lab Number : 05477069
Unique Number : 9866283
Test Package : IND 2
Received : 24 Feb 2022
Tested : 26 Feb 2022
Diagnosed : 26 Feb 2022 - Don Baldrige

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 190 M STREET EXTENSION
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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)