



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[21-3685]
 Machine Id
BOSCH PUMP SEAL AIR HYDRAULICS RTO (S/N 2886)
 Component
Hydraulic System
 Fluid
ATF (60 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0408712	WC0528870	WC0408702
Sample Date		Client Info		17 Feb 2022	11 Jun 2021	29 Oct 2020
Machine Age	mths	Client Info		177	168	0
Oil Age	mths	Client Info		177	168	160
Filter Age	mths	Client Info		177	168	160
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	4	4	4
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<1	<1	0
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>20	5	4	4
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

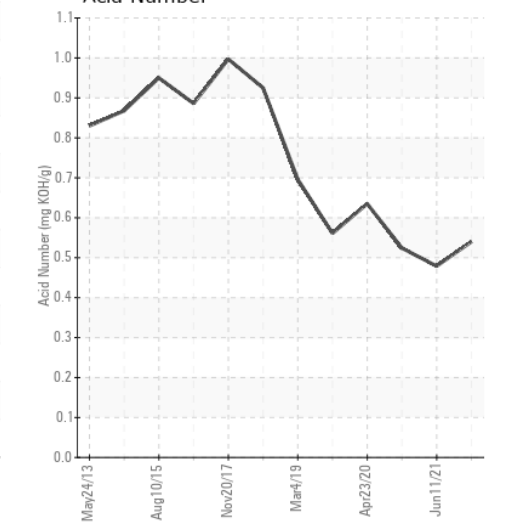
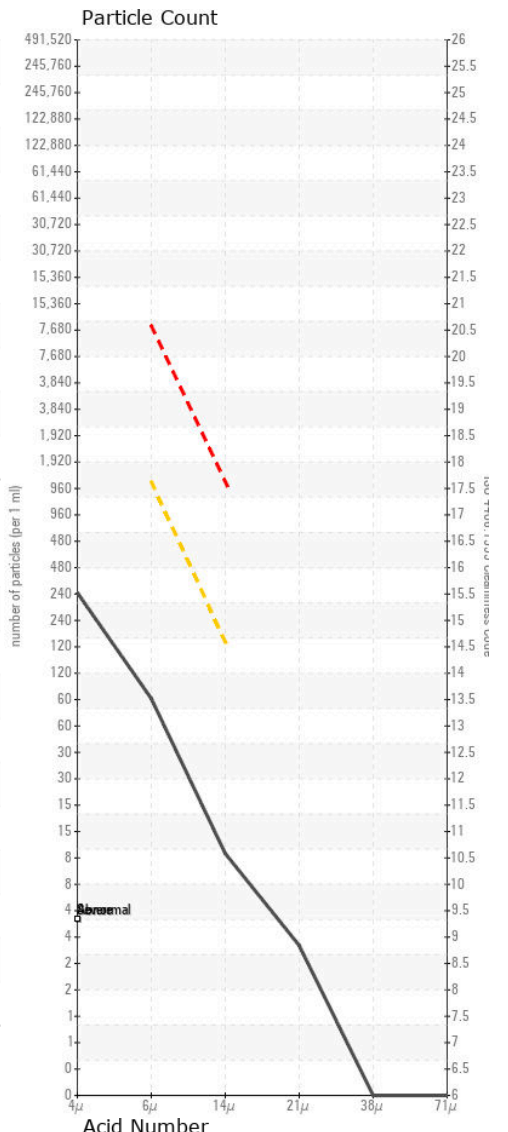
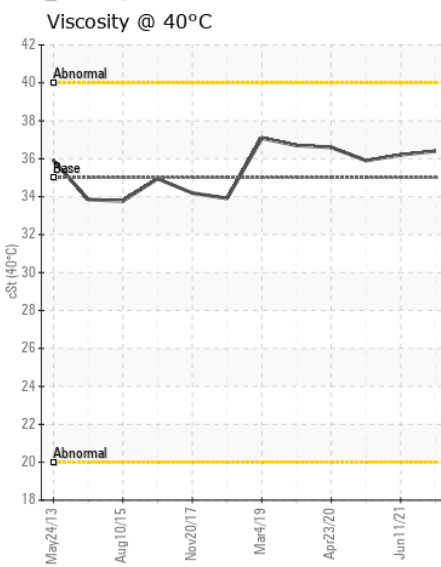
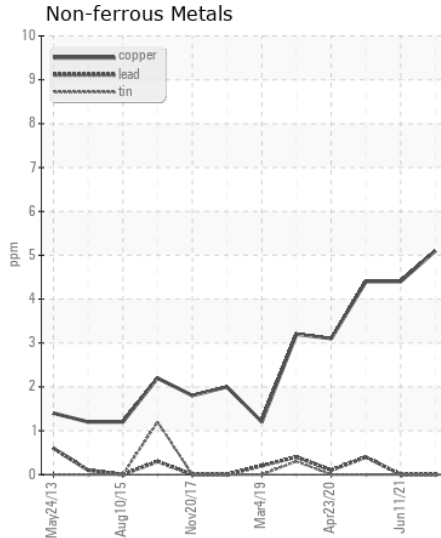
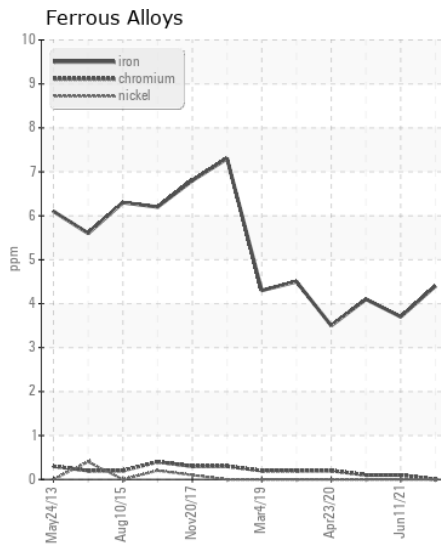
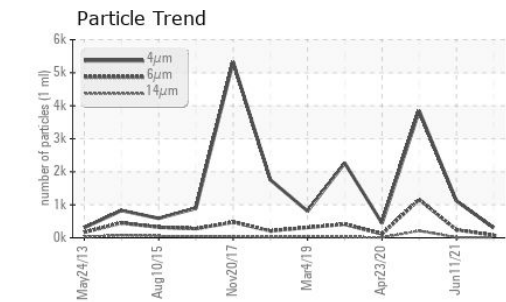
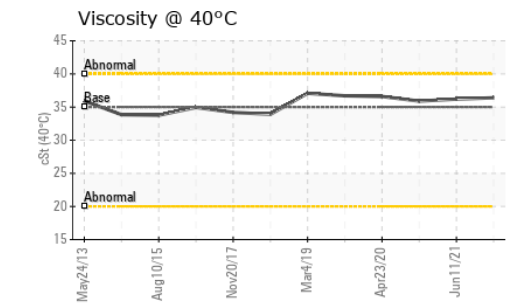
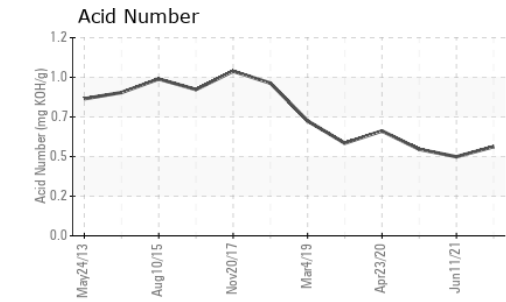
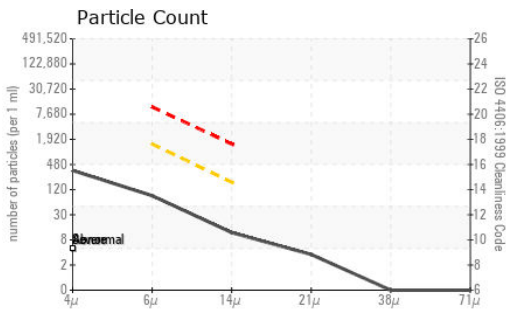
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>15	1	<1	1
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water		WC Method	>0.05	NEG	NEG	NEG
Particles >4µm		ASTM D7647		304	1121	3845
Particles >6µm		ASTM D7647	>1300	76	242	1159
Particles >14µm		ASTM D7647	>160	10	14	210
Particles >21µm		ASTM D7647	>40	3	3	82
Particles >38µm		ASTM D7647	>10	0	0	5
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/17/14	15/13/10	17/15/11	19/17/15
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	>0.05	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		6	5	6
Boron	ppm	ASTM D5185m		46	50	49
Barium	ppm	ASTM D5185m		31	32	21
Molybdenum	ppm	ASTM D5185m		1	1	1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		15	14	16
Calcium	ppm	ASTM D5185m		146	131	128
Phosphorus	ppm	ASTM D5185m		373	322	342
Zinc	ppm	ASTM D5185m		175	173	173
Sulfur	ppm	ASTM D5185m		2414	2057	2213
Acid Number (AN)	mg KOH/g	ASTM D8045		0.54	0.479	0.524
Visc @ 40°C	cSt	ASTM D445	35.0	36.4	36.2	35.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0408712
Lab Number : 05476998
Unique Number : 9866212
Test Package : IND 2
Received : 24 Feb 2022
Tested : 25 Feb 2022
Diagnosed : 25 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)