



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
TORRETA
 Component
Hydraulic System
 Fluid
ANDEROL BIO GUARD FRHF 46 (--- QTS)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		AN06151127	AN06151115	AN06151103
Sample Date		Client Info		12 Mar 2024	23 Feb 2024	16 Jan 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	0	0	0
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>20	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	<1
Lead	ppm	ASTM D5185m	>20	<1	0	0
Copper	ppm	ASTM D5185m	>20	4	4	4
Tin	ppm	ASTM D5185m	>20	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

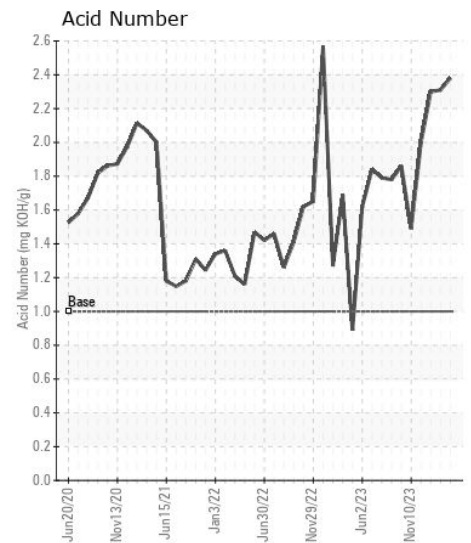
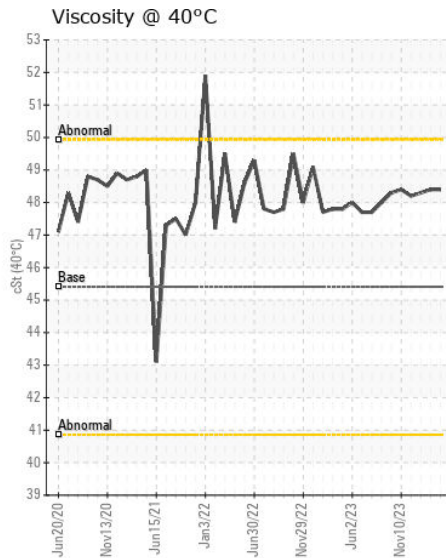
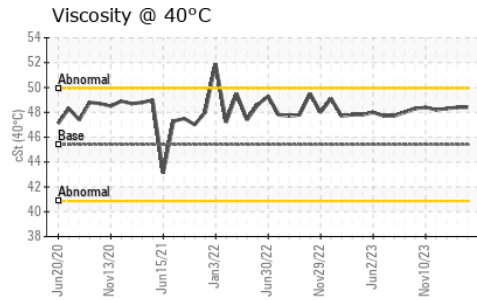
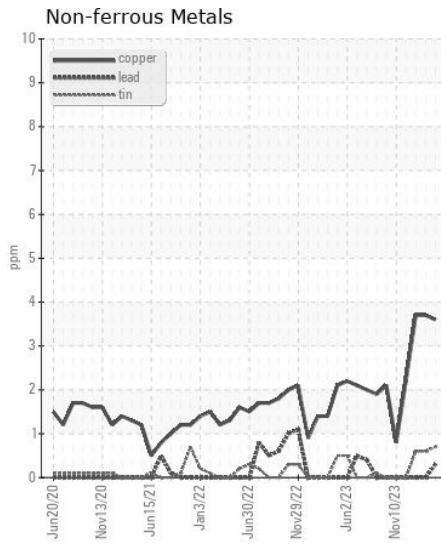
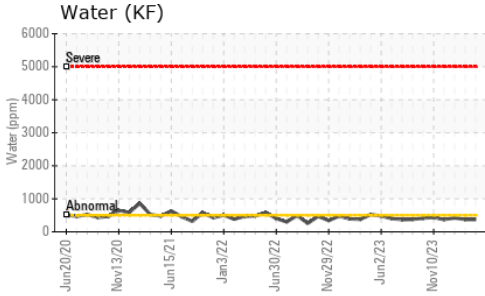
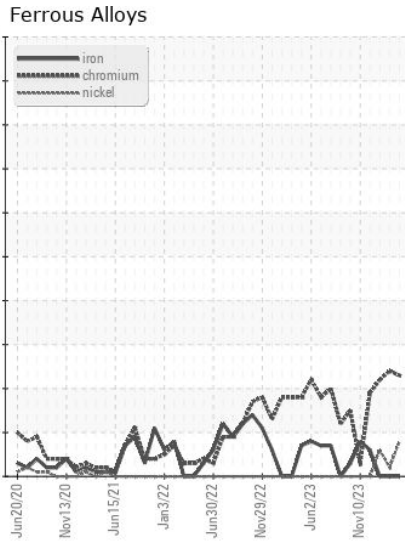
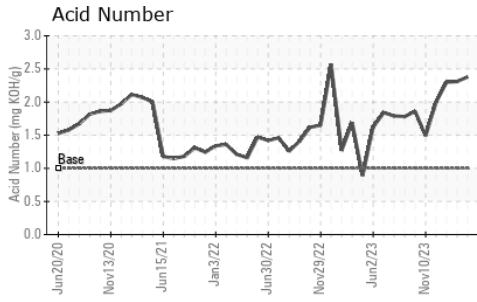
Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	3	2	3
Water	%	ASTM D6304	>0.05	0.037	0.037	0.042
ppm Water	ppm	ASTM D6304	>500	370	374	422
Particles >4µm		ASTM D7647	>5000	---	▲ 15314	▲ 15109
Particles >6µm		ASTM D7647	>1300	---	532	1081
Particles >14µm		ASTM D7647	>160	---	67	111
Particles >21µm		ASTM D7647	>40	---	27	38
Particles >38µm		ASTM D7647	>10	---	2	3
Particles >71µm		ASTM D7647	>3	---	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	---	▲ 21/16/13	▲ 21/17/14
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	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	>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		2	2	2
Boron	ppm	ASTM D5185m		0	0	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		2	1	2
Calcium	ppm	ASTM D5185m		<1	<1	1
Phosphorus	ppm	ASTM D5185m	196	211	205	213
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	1440	2222	2206	2249
Acid Number (AN)	mg KOH/g	ASTM D8045	1	2.38	2.31	2.30
Visc @ 40°C	cSt	ASTM D445	45.41	48.4	48.4	48.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : AN06151127 **Received** : 16 Apr 2024
Lab Number : 06151127 **Tested** : 19 Apr 2024
Unique Number : 10981205 **Diagnosed** : 19 Apr 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: PrtCount)

CONEXO INC
 2320 STARR LAKE DRIVE
 ACWORTH, GA
 US 30101
 Contact: RICARDO HEIN
 rhein@conexoinc.com

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)

T: (678)806-0131

F: x: