



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.

WEAR

All component wear rates are normal.

CONTAMINATION

There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil.

FLUID CONDITION

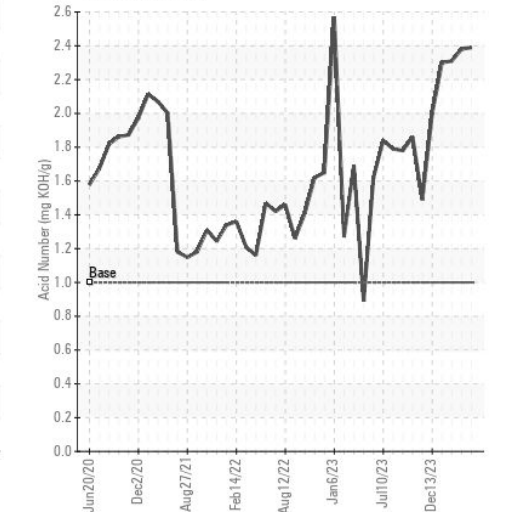
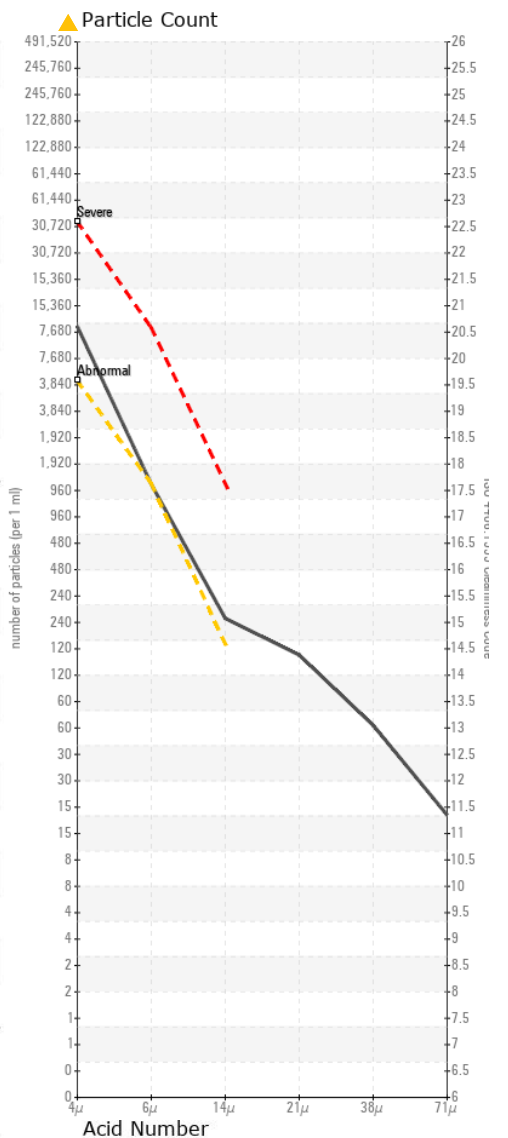
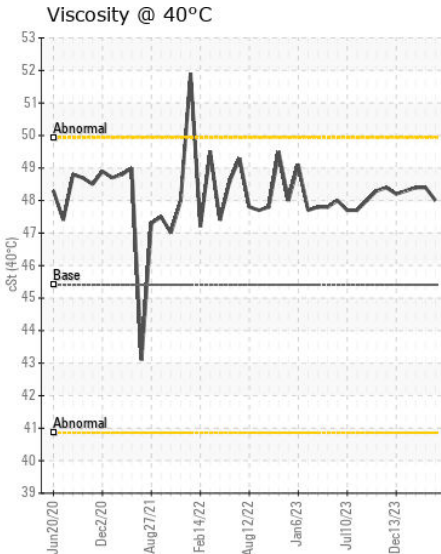
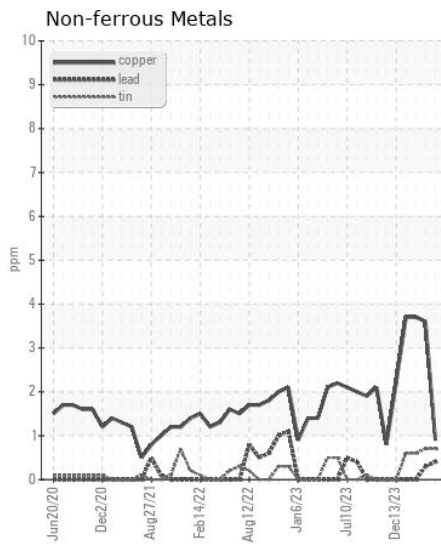
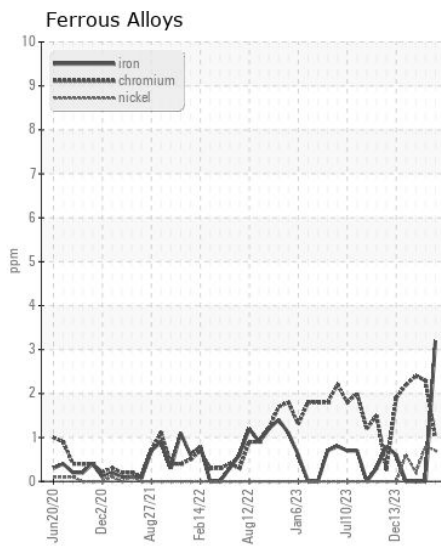
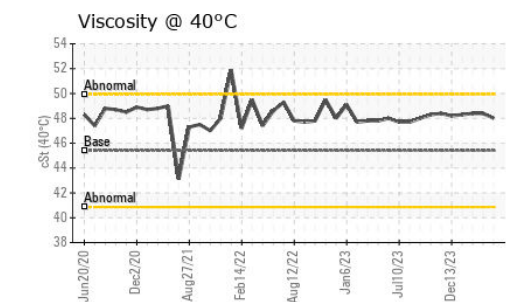
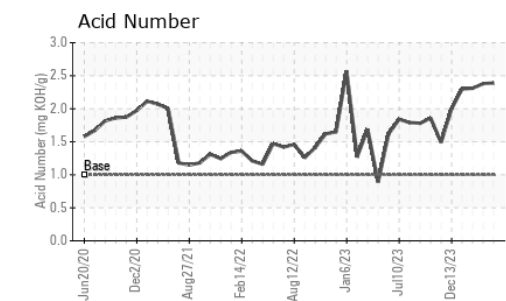
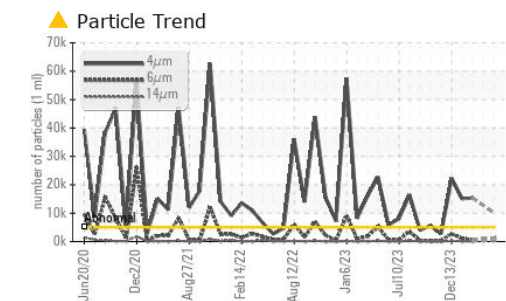
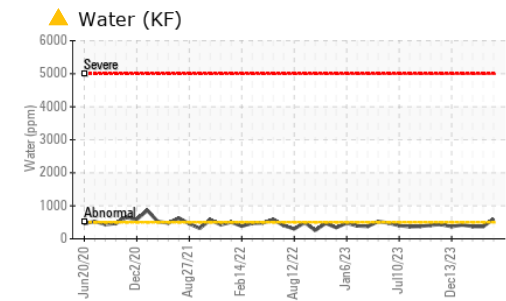
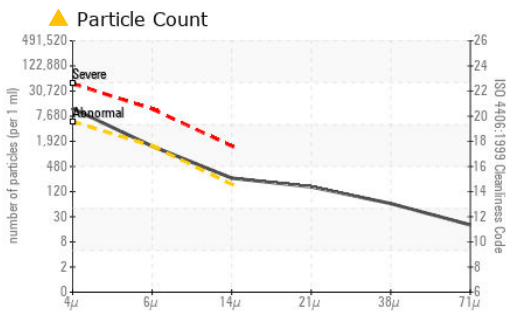
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		AN06194634	AN06151127	AN06151115
Sample Date		Client Info		11 Apr 2024	12 Mar 2024	23 Feb 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

Iron	ppm	ASTM D5185m	>20	3	0	0
Chromium	ppm	ASTM D5185m	>20	1	2	2
Nickel	ppm	ASTM D5185m	>20	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		1	0	0
Aluminum	ppm	ASTM D5185m	>20	7	<1	<1
Lead	ppm	ASTM D5185m	>20	<1	<1	0
Copper	ppm	ASTM D5185m	>20	<1	4	4
Tin	ppm	ASTM D5185m	>20	<1	<1	<1
Vanadium	ppm	ASTM D5185m		1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>15	4	<1	<1
Potassium	ppm	ASTM D5185m	>20	5	3	2
Water	%	ASTM D6304	>0.05	▲ 0.060	0.037	0.037
ppm Water	ppm	ASTM D6304	>500	▲ 607	370	374
Particles >4µm		ASTM D7647	>5000	▲ 10181	---	▲ 15314
Particles >6µm		ASTM D7647	>1300	▲ 1290	---	532
Particles >14µm		ASTM D7647	>160	▲ 223	---	67
Particles >21µm		ASTM D7647	>40	▲ 138	---	27
Particles >38µm		ASTM D7647	>10	▲ 55	---	2
Particles >71µm		ASTM D7647	>3	▲ 17	---	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/17/15	---	▲ 21/16/13
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	LIGHT
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

Sodium	ppm	ASTM D5185m		19	2	2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	1	1
Magnesium	ppm	ASTM D5185m		<1	2	1
Calcium	ppm	ASTM D5185m		0	<1	<1
Phosphorus	ppm	ASTM D5185m	196	106	211	205
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	1440	195	2222	2206
Acid Number (AN)	mg KOH/g	ASTM D8045	1	2.39	2.38	2.31
Visc @ 40°C	cSt	ASTM D445	45.41	48.00	48.4	48.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : AN06194634
Lab Number : 06194634
Unique Number : 11056757
Test Package : IND 2 (Additional Tests: PrtCount)

Received : 29 May 2024
Tested : 03 Jun 2024
Diagnosed : 03 Jun 2024 - Jonathan Hester

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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