



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

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

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

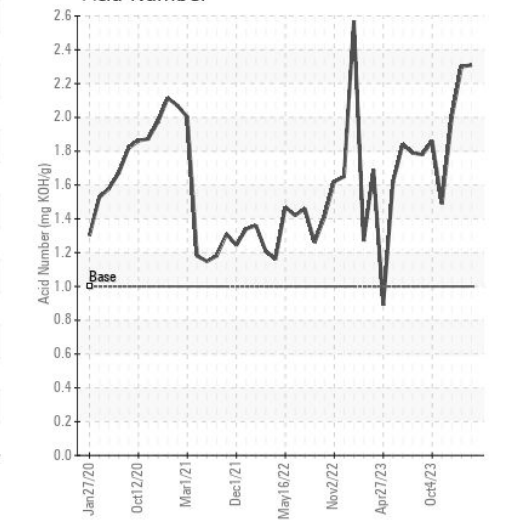
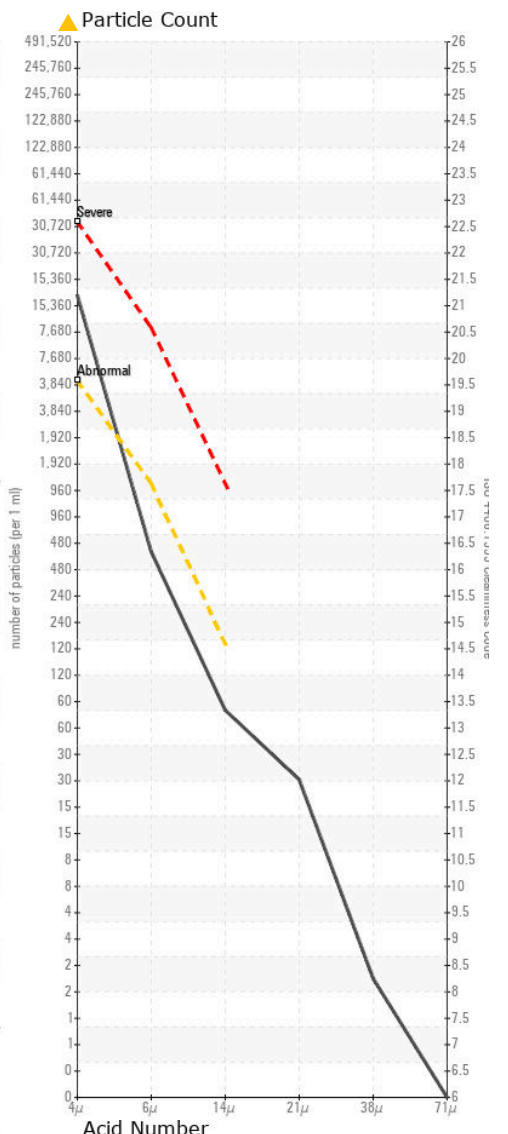
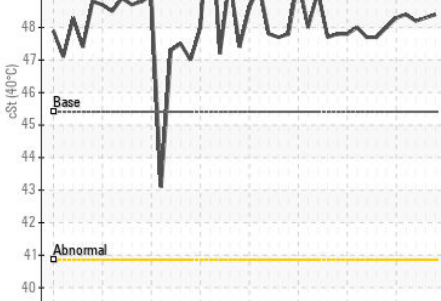
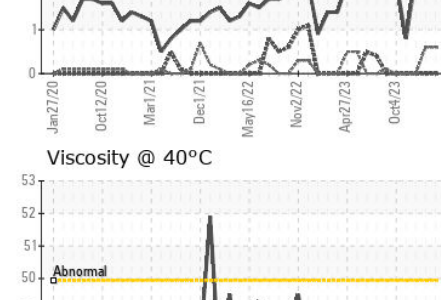
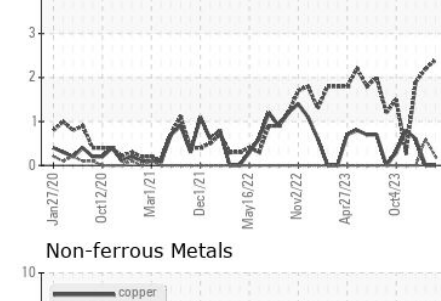
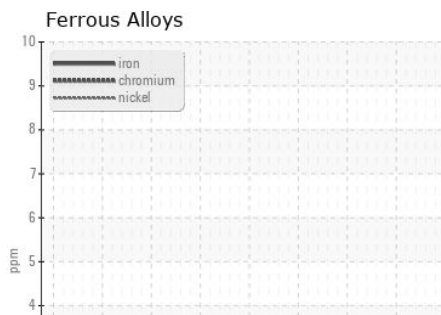
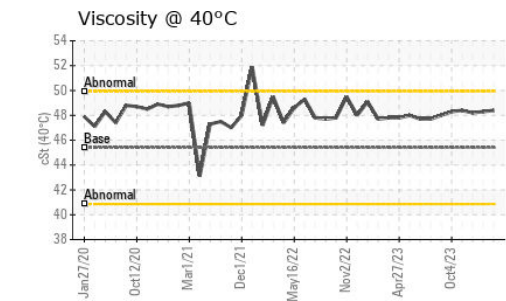
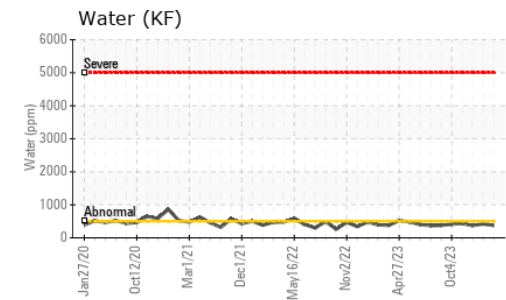
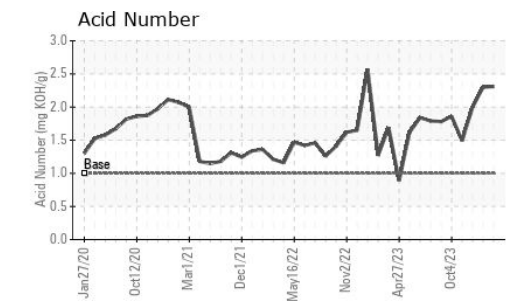
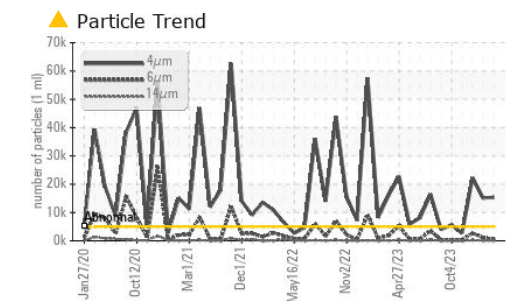
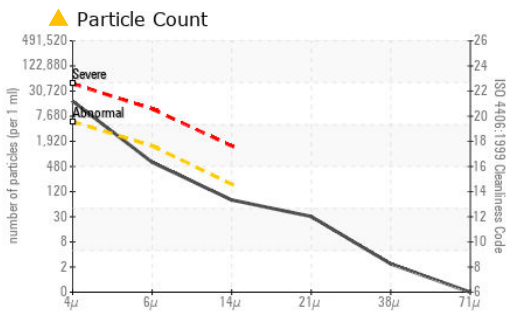
CONTAMINATION

There is a high amount of silt (particulates < 6 microns in size) present in the oil.

FLUID CONDITION

The AN level is at the top-end of the recommended limit. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		AN06151115	AN06151103	AN06060266
Sample Date		Client Info		23 Feb 2024	16 Jan 2024	13 Dec 2023
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	0	0	<1
Chromium	ppm	ASTM D5185m	>20	2	2	2
Nickel	ppm	ASTM D5185m	>20	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	2
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	4	4	2
Tin	ppm	ASTM D5185m	>20	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	2	3	<1
Water	%	ASTM D6304	>0.05	0.037	0.042	0.036
ppm Water	ppm	ASTM D6304	>500	374	422	370
Particles >4µm		ASTM D7647	>5000	▲ 15314	▲ 15109	▲ 22282
Particles >6µm		ASTM D7647	>1300	532	1081	▲ 2709
Particles >14µm		ASTM D7647	>160	67	111	● 219
Particles >21µm		ASTM D7647	>40	27	38	▲ 88
Particles >38µm		ASTM D7647	>10	2	3	8
Particles >71µm		ASTM D7647	>3	0	1	2
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/16/13	▲ 21/17/14	▲ 22/19/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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
Sodium	ppm	ASTM D5185m		2	2	<1
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	0
Magnesium	ppm	ASTM D5185m		1	2	0
Calcium	ppm	ASTM D5185m		<1	1	0
Phosphorus	ppm	ASTM D5185m	196	205	213	234
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	1440	2206	2249	1883
Acid Number (AN)	mg KOH/g	ASTM D8045	1	2.31	2.30	2.00
Visc @ 40°C	cSt	ASTM D445	45.41	48.4	48.3	48.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : AN06151115 **Received** : 16 Apr 2024
Lab Number : 06151115 **Tested** : 19 Apr 2024
Unique Number : 10981193 **Diagnosed** : 19 Apr 2024 - Jonathan Hester
Test Package : IND 2 (Additional Tests: PrtCount)

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Certificate L2367
 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)