



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**HORNO**  
 Component  
**Hydraulic System**  
 Fluid  
**ANDEROL BIO GUARD FRHF 46 (--- LTR)**

**RECOMMENDATION**

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

**WEAR**

All component wear rates are normal.

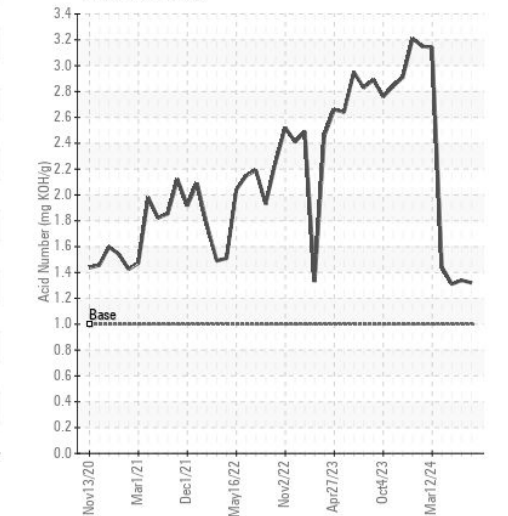
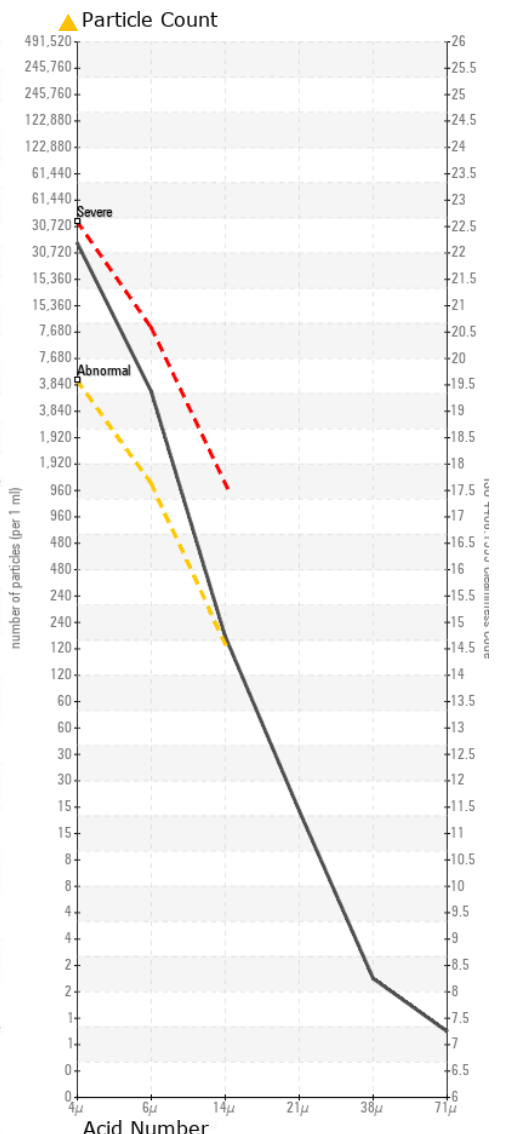
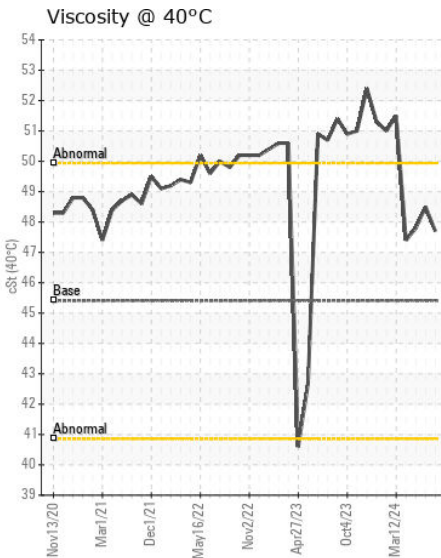
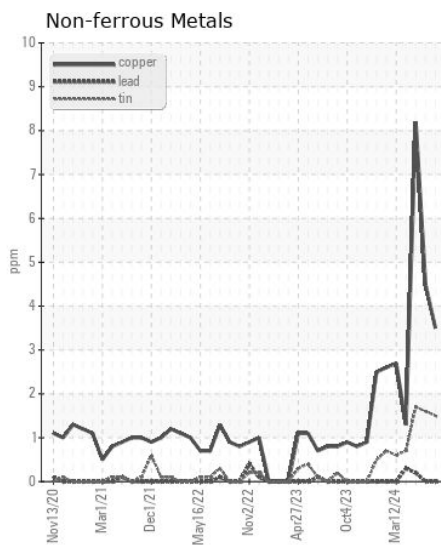
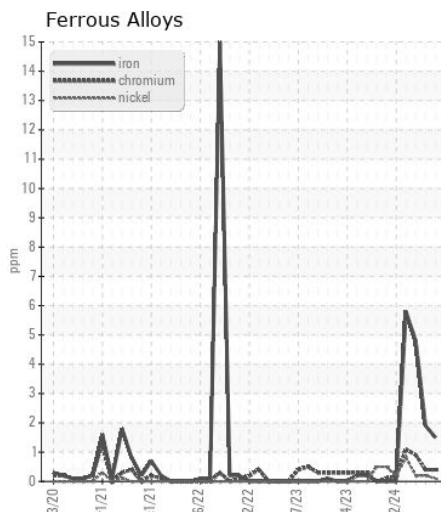
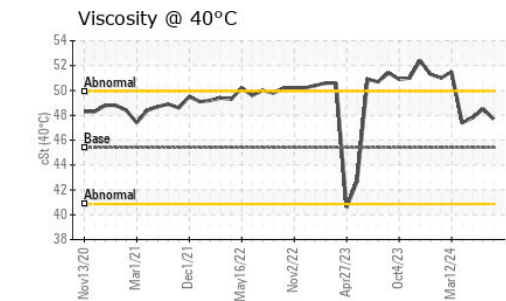
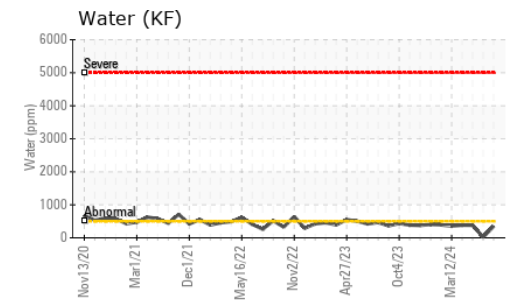
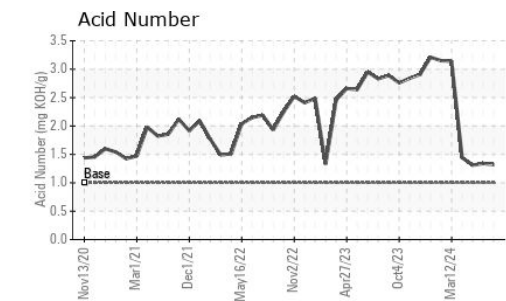
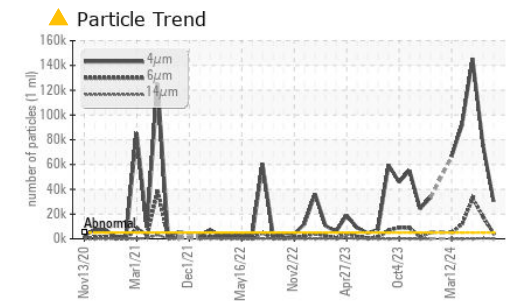
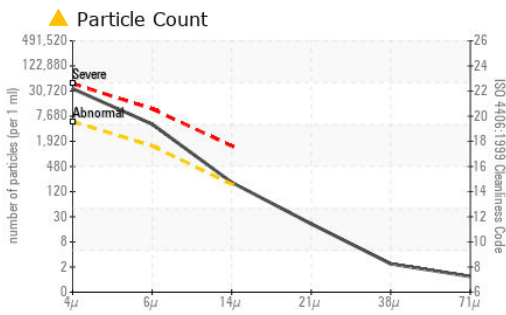
**CONTAMINATION**

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

**FLUID CONDITION**

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>AN06194646</b>	AN06194658	AN06194657
Sample Date		Client Info		<b>16 May 2024</b>	29 Apr 2024	28 Apr 2024
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>20	<b>2</b>	2	5
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>1</b>	1	1
Lead	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>20	<b>4</b>	4	8
Tin	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silicon	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Water	%	ASTM D6304	>0.05	<b>0.034</b>	0.002	0.037
ppm Water	ppm	ASTM D6304	>500	<b>349</b>	20	379
Particles >4µm		ASTM D7647	>5000	<b>▲ 30300</b>	▲ 75729	▲ 145671
Particles >6µm		ASTM D7647	>1300	<b>▲ 4334</b>	▲ 17642	▲ 32857
Particles >14µm		ASTM D7647	>160	<b>● 176</b>	▲ 467	121
Particles >21µm		ASTM D7647	>40	<b>18</b>	16	14
Particles >38µm		ASTM D7647	>10	<b>2</b>	1	1
Particles >71µm		ASTM D7647	>3	<b>1</b>	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 22/19/15</b>	▲ 23/21/16	▲ 24/22/14
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	<b>NEG</b>	NEG	NEG
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>1</b>	<1	1
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Calcium	ppm	ASTM D5185m		<b>3</b>	4	10
Phosphorus	ppm	ASTM D5185m	196	<b>198</b>	214	209
Zinc	ppm	ASTM D5185m		<b>2</b>	2	5
Sulfur	ppm	ASTM D5185m	1440	<b>1693</b>	1810	1769
Acid Number (AN)	mg KOH/g	ASTM D8045	1	<b>1.32</b>	1.34	1.31
Visc @ 40°C	cSt	ASTM D445	45.41	<b>47.7</b>	48.5	47.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : AN06194646 **Received** : 29 May 2024  
**Lab Number** : 06194646 **Tested** : 31 May 2024  
**Unique Number** : 11056769 **Diagnosed** : 31 May 2024 - Wes Davis  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

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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