



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**SERVICIOS / EXTRACTION**  
 Component  
**Hydraulic System**  
 Fluid  
**ANDEROL BIO GUARD FRHF 46 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>AN06194645</b>	AN06194632	AN06151125
Sample Date		Client Info		<b>16 May 2024</b>	12 Mar 2024	12 Mar 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>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>&lt;1</b>	6	0
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	0
Nickel	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	1	0
Aluminum	ppm	ASTM D5185m	>20	<b>1</b>	10	<1
Lead	ppm	ASTM D5185m	>20	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>20	<b>1</b>	1	2
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

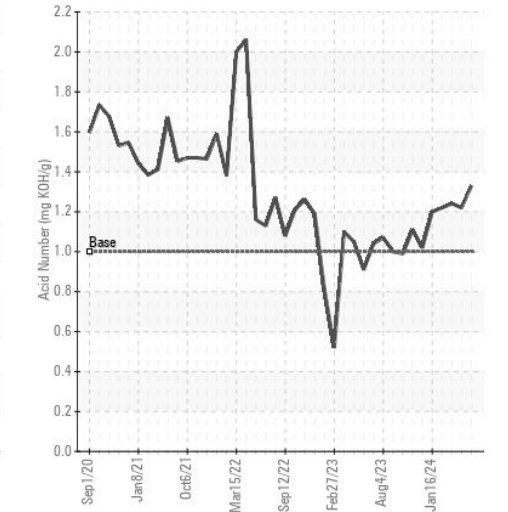
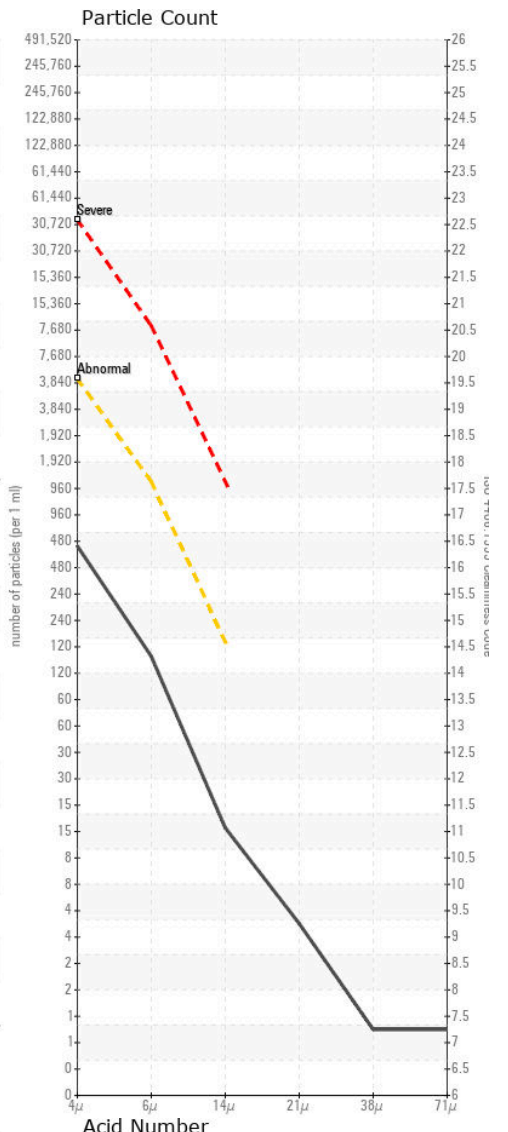
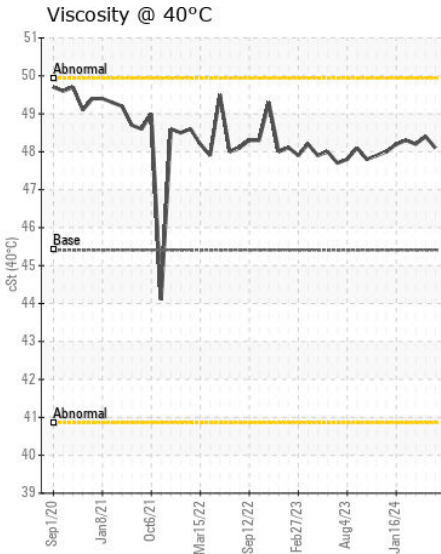
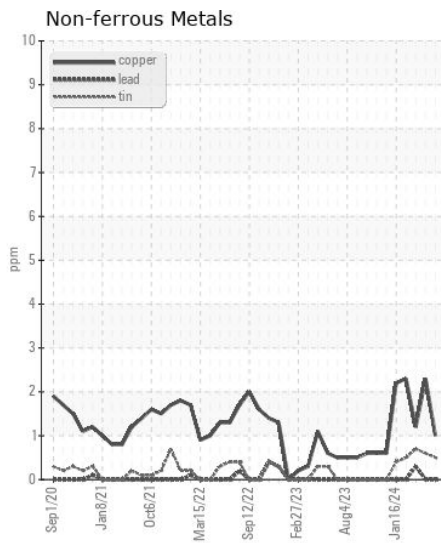
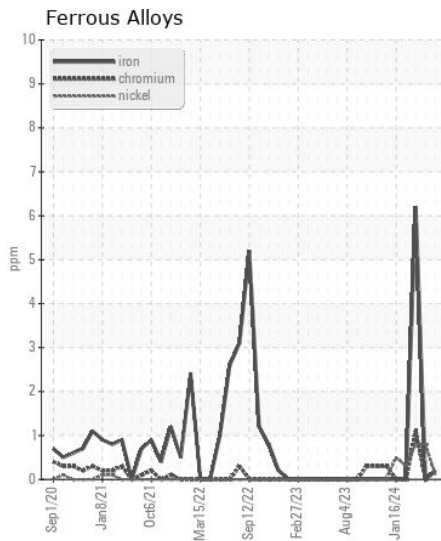
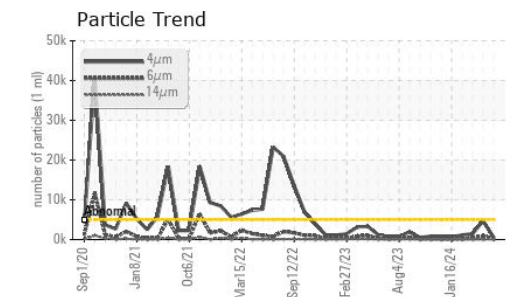
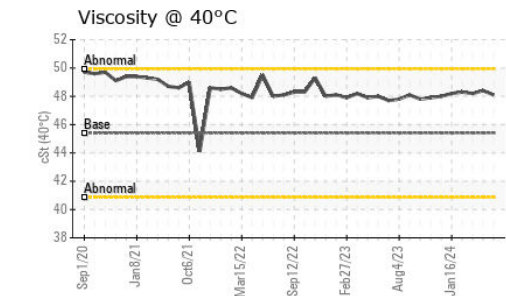
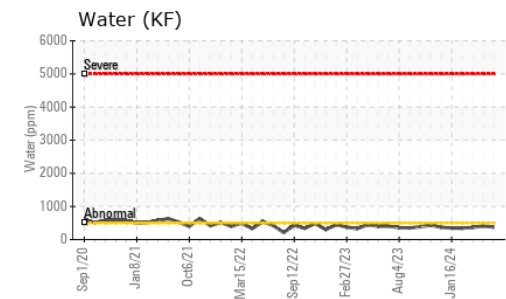
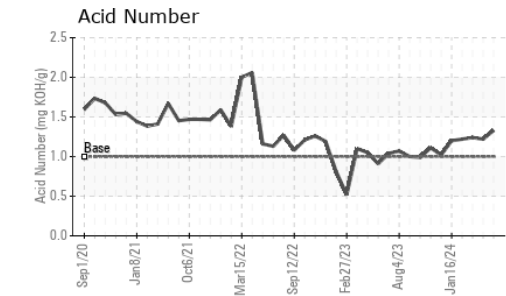
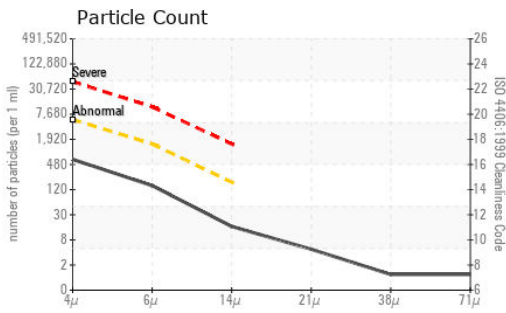
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>15	<b>&lt;1</b>	3	0
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	7	3
Water	%	ASTM D6304	>0.05	<b>0.037</b>	0.041	0.036
ppm Water	ppm	ASTM D6304	>500	<b>374</b>	411	365
Particles >4µm		ASTM D7647	>5000	<b>560</b>	1467	4670
Particles >6µm		ASTM D7647	>1300	<b>132</b>	349	949
Particles >14µm		ASTM D7647	>160	<b>14</b>	46	58
Particles >21µm		ASTM D7647	>40	<b>4</b>	20	14
Particles >38µm		ASTM D7647	>10	<b>1</b>	2	0
Particles >71µm		ASTM D7647	>3	<b>1</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>16/14/11</b>	18/16/13	19/17/13
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

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>0</b>	29	2
Boron	ppm	ASTM D5185m		<b>0</b>	1	0
Barium	ppm	ASTM D5185m		<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	2	2
Calcium	ppm	ASTM D5185m		<b>4</b>	0	1
Phosphorus	ppm	ASTM D5185m	196	<b>203</b>	396	217
Zinc	ppm	ASTM D5185m		<b>2</b>	<1	0
Sulfur	ppm	ASTM D5185m	1440	<b>1686</b>	265	2344
Acid Number (AN)	mg KOH/g	ASTM D8045	1	<b>1.33</b>	1.22	1.24
Visc @ 40°C	cSt	ASTM D445	45.41	<b>48.1</b>	48.4	48.2



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : AN06194645 **Received** : 29 May 2024  
**Lab Number** : 06194645 **Tested** : 31 May 2024  
**Unique Number** : 11056768 **Diagnosed** : 31 May 2024 - Wes Davis  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

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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)