



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**CARRO PORTA / TUNDISH 2**  
 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.

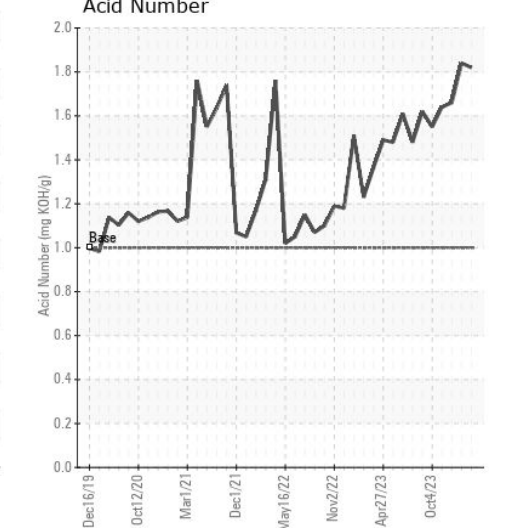
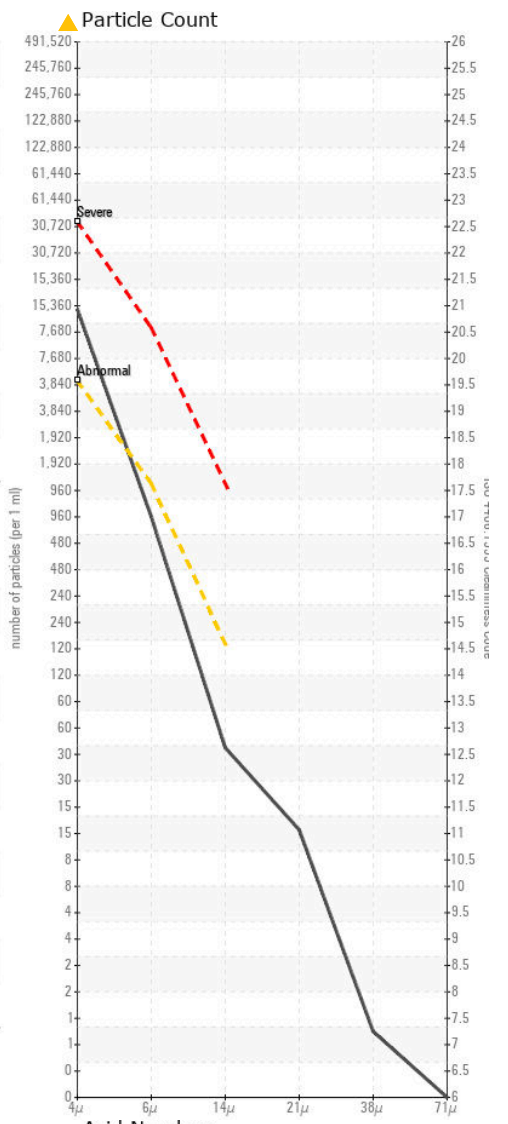
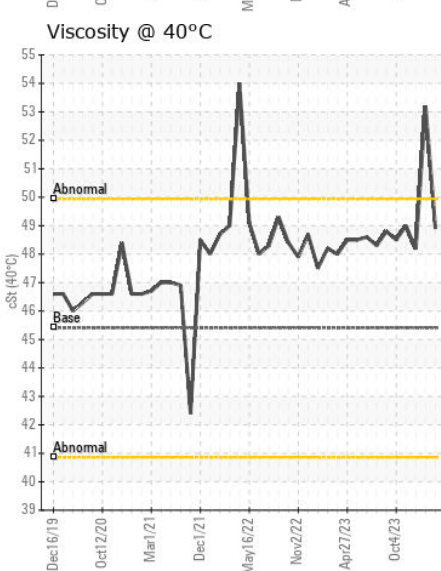
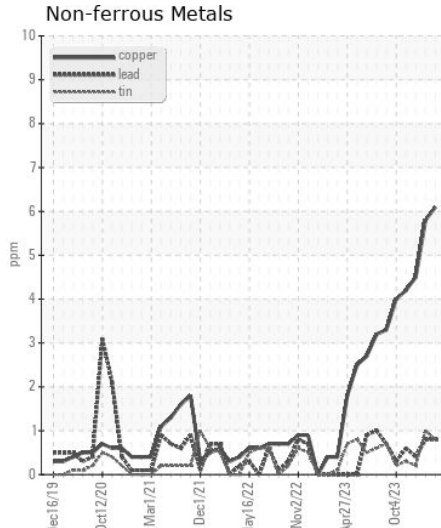
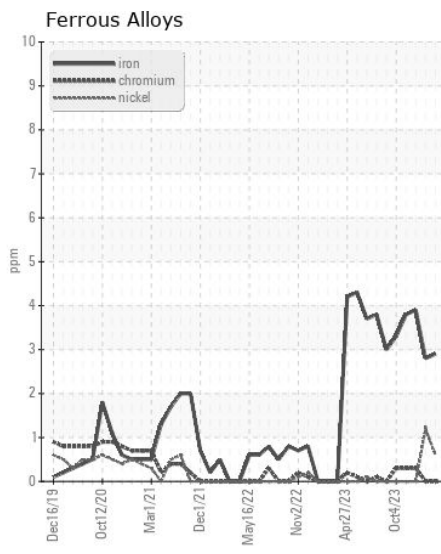
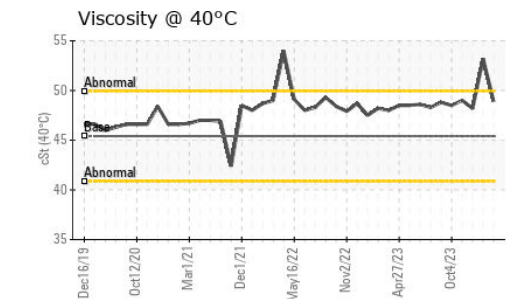
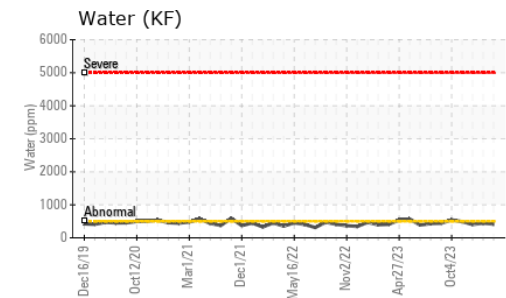
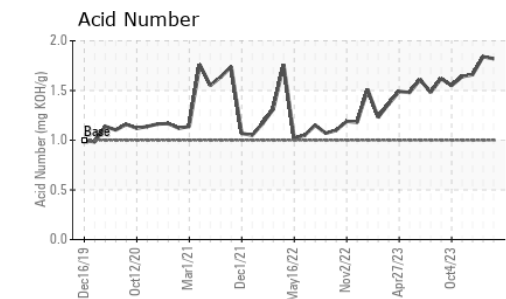
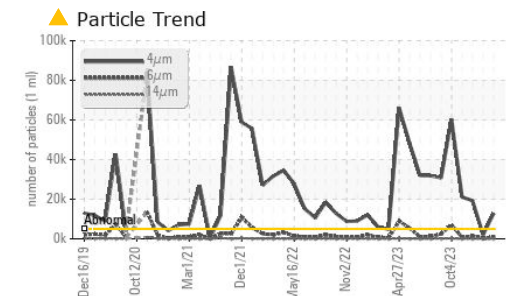
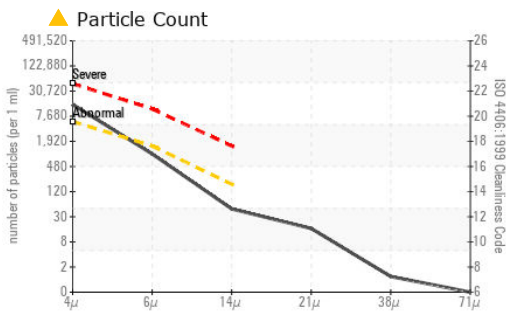
**CONTAMINATION**

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

**FLUID CONDITION**

The AN level is 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		<b>AN06151119</b>	AN06151107	AN06060270
Sample Date		Client Info		<b>23 Feb 2024</b>	16 Jan 2024	13 Dec 2023
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>	---	ABNORMAL
Iron	ppm	ASTM D5185m	>20	<b>3</b>	3	4
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	2
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>20	<b>6</b>	6	4
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	<1
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>2</b>	3	<1
Water	%	ASTM D6304	>0.05	<b>0.041</b>	0.044	0.040
ppm Water	ppm	ASTM D6304	>500	<b>413</b>	445	404
Particles >4µm		ASTM D7647	>5000	<b>▲ 12779</b>	2034	▲ 19230
Particles >6µm		ASTM D7647	>1300	<b>843</b>	295	● 1423
Particles >14µm		ASTM D7647	>160	<b>41</b>	32	58
Particles >21µm		ASTM D7647	>40	<b>14</b>	12	19
Particles >38µm		ASTM D7647	>10	<b>1</b>	1	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 21/17/13</b>	18/15/12	▲ 21/18/13
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</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>1</b>	2	<1
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>1</b>	1	0
Magnesium	ppm	ASTM D5185m		<b>1</b>	1	0
Calcium	ppm	ASTM D5185m		<b>2</b>	2	<1
Phosphorus	ppm	ASTM D5185m	196	<b>215</b>	212	241
Zinc	ppm	ASTM D5185m		<b>7</b>	7	0
Sulfur	ppm	ASTM D5185m	1440	<b>4530</b>	4997	4407
Acid Number (AN)	mg KOH/g	ASTM D8045	1	<b>1.82</b>	1.84	1.66
Visc @ 40°C	cSt	ASTM D445	45.41	<b>48.9</b>	▲ 53.2	48.18



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : AN06151119 **Received** : 16 Apr 2024  
**Lab Number** : 06151119 **Tested** : 19 Apr 2024  
**Unique Number** : 10981197 **Diagnosed** : 19 Apr 2024 - Jonathan Hester  
**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)