



Machine Id  
**D HYDRAULIC TANK**  
Component  
**Hydraulic System**  
Fluid  
**RED DRUM (250 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

**WEAR**

All component wear rates are normal.

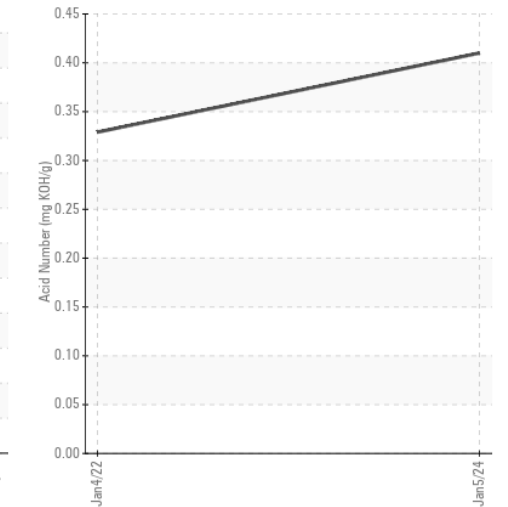
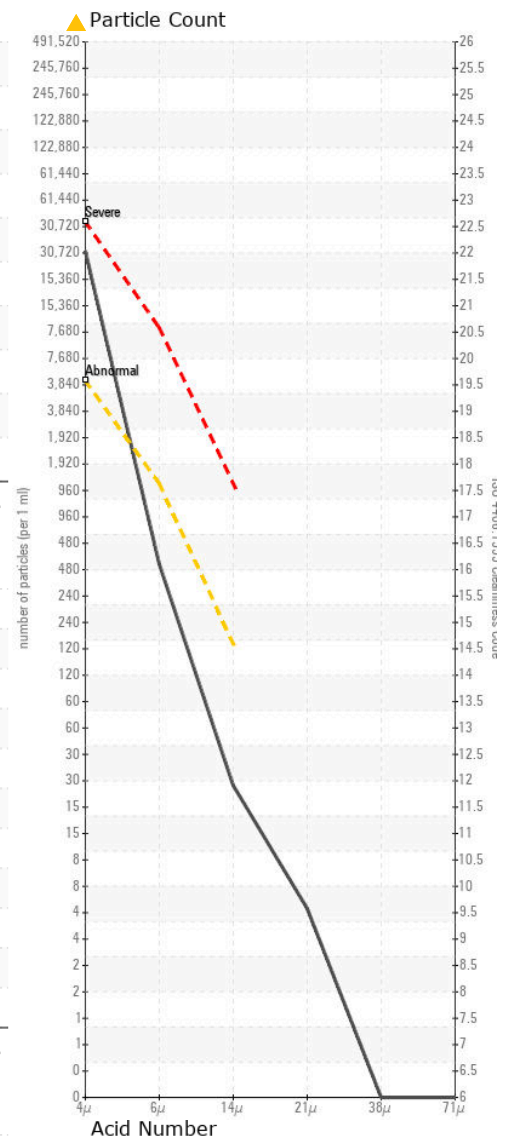
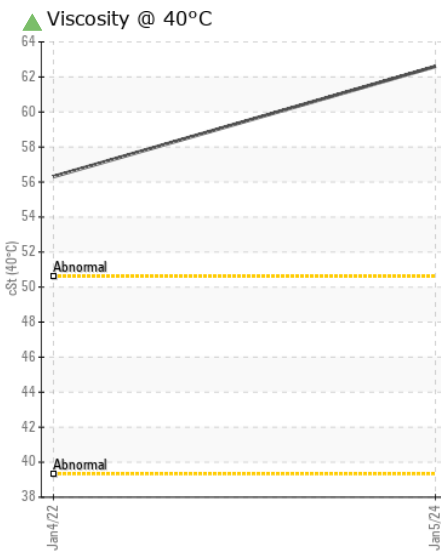
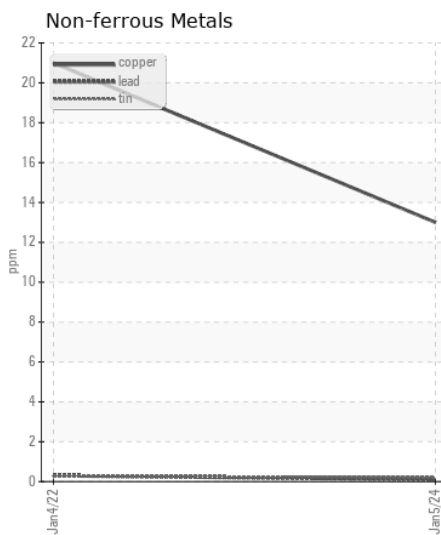
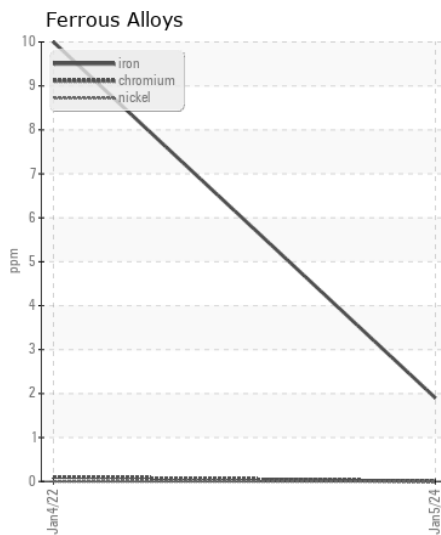
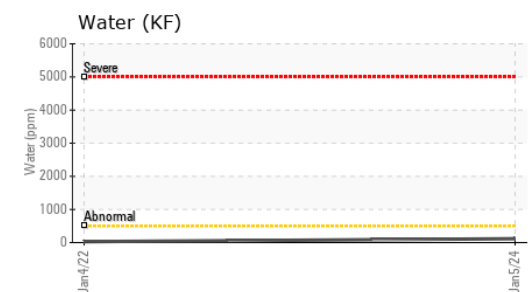
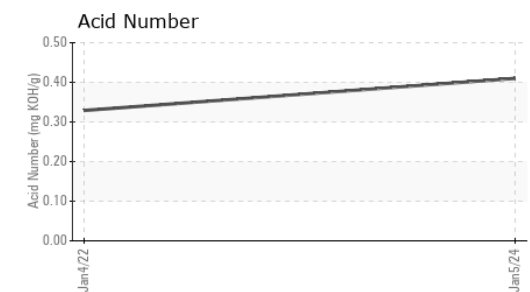
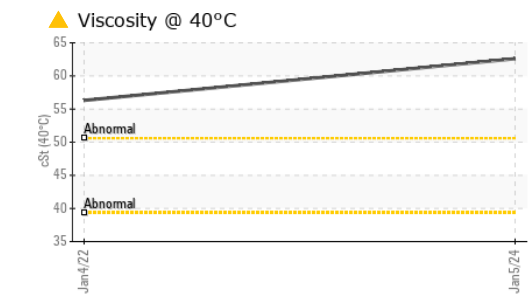
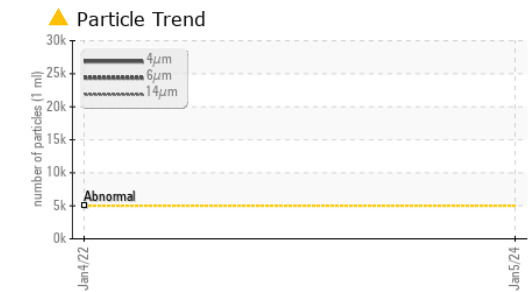
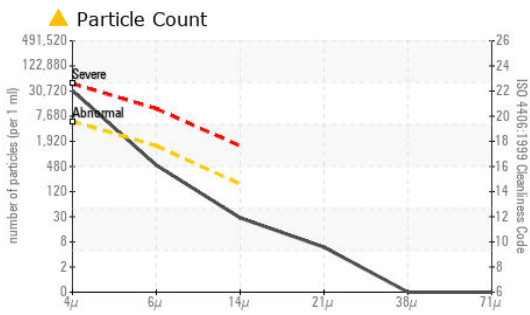
**CONTAMINATION**

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

**FLUID CONDITION**

The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ST42850</b>	ST42087	---
Sample Date		Client Info		<b>05 Jan 2024</b>	04 Jan 2022	---
Machine Age	hrs	Client Info		<b>0</b>	0	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---
Iron	ppm	ASTM D5185m	>20	<b>2</b>	10	---
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>20	<b>7</b>	▲ 20	---
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>20	<b>13</b>	▲ 21	---
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silicon	ppm	ASTM D5185m	>15	<b>1</b>	<1	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	---
Water	%	ASTM D6304	>0.05	<b>0.011</b>	0.003	---
ppm Water	ppm	ASTM D6304	>500	<b>117</b>	27.6	---
Particles >4µm		ASTM D7647	>5000	▲ <b>27295</b>	---	---
Particles >6µm		ASTM D7647	>1300	<b>453</b>	---	---
Particles >14µm		ASTM D7647	>160	<b>25</b>	---	---
Particles >21µm		ASTM D7647	>40	<b>5</b>	---	---
Particles >38µm		ASTM D7647	>10	<b>0</b>	---	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ <b>22/16/12</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.05	<b>NEG</b>	NEG	---
Sodium	ppm	ASTM D5185m		<b>0</b>	1	---
Boron	ppm	ASTM D5185m		<b>43</b>	<1	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>12</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>202</b>	37	---
Calcium	ppm	ASTM D5185m		<b>244</b>	23	---
Phosphorus	ppm	ASTM D5185m		<b>422</b>	297	---
Zinc	ppm	ASTM D5185m		<b>425</b>	340	---
Sulfur	ppm	ASTM D5185m		<b>2539</b>	754	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.41</b>	0.329	---
Visc @ 40°C	cSt	ASTM D445		▲ <b>62.6</b>	▲ 56.31	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ST42850 **Received** : 10 Jan 2024  
**Lab Number** : 06057345 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 10823294 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF )

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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