



# PROBLEM SUMMARY

Sample Rating Trend



**WEAR**



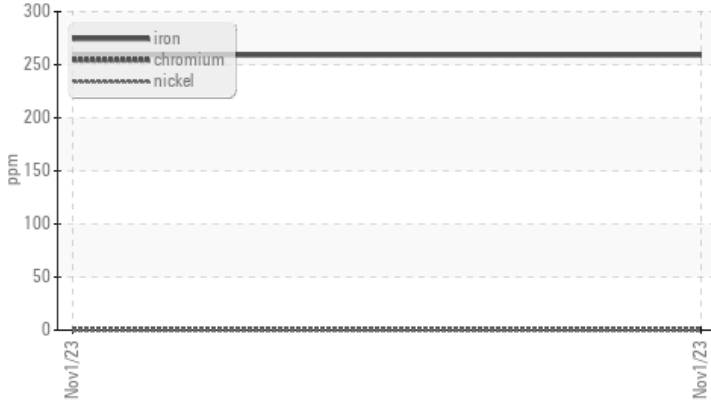
Machine Id  
**T-1 VAC MILL (SOUTH PLANT)**

Component  
**Agitator Gearbox**

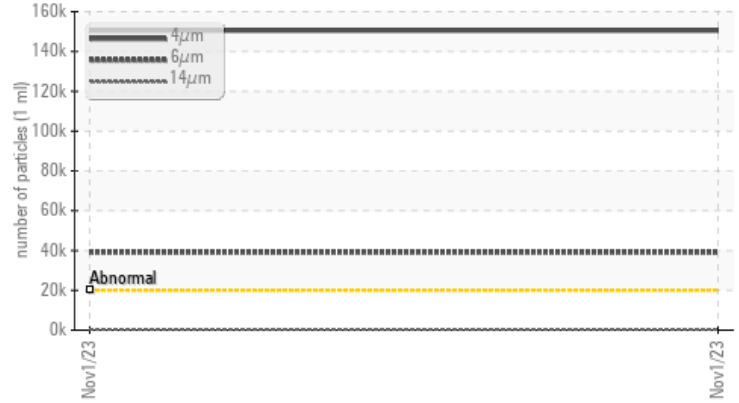
Fluid  
**JAX MAGNA-PLATE 220 FG (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Ferrous Alloys



### ▲ Particle Trend



## RECOMMENDATION

We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status			<b>ABNORMAL</b>	---	---
Iron	ppm	ASTM D5185m >150	▲ 259	---	---
Particles >4µm		ASTM D7647 >20000	▲ 150495	---	---
Particles >6µm		ASTM D7647 >5000	▲ 39111	---	---
Oil Cleanliness		ISO 4406 (c) >21/19/16	▲ 24/22/16	---	---

Customer Id: TYSSAI  
Sample No.: USP0003041  
Lab Number: 05996729  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

**RECOMMENDED ACTIONS**

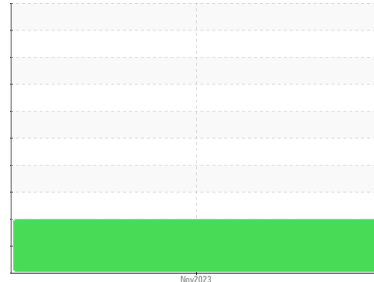
<b>Action</b>	<b>Status</b>	<b>Date</b>	<b>Done By</b>	<b>Description</b>
Resample	---	---	?	We recommend an early resample to monitor this condition.

**HISTORICAL DIAGNOSIS**



# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**T-1 VAC MILL (SOUTH PLANT)**

Component  
**Agitator Gearbox**

Fluid  
**JAX MAGNA-PLATE 220 FG (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

We recommend an early resample to monitor this condition.

### ▲ Wear

Gear wear is indicated.

### ▲ Contamination

There is a high amount of silt (particulates < 14 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.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>USP0003041</b>	---	---
Sample Date	Client Info	<b>01 Nov 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>150	<b>▲ 259</b>	---	---
Chromium ppm ASTM D5185m	>10	<b>&lt;1</b>	---	---
Nickel ppm ASTM D5185m	>10	<b>0</b>	---	---
Titanium ppm ASTM D5185m		<b>0</b>	---	---
Silver ppm ASTM D5185m		<b>0</b>	---	---
Aluminum ppm ASTM D5185m	>25	<b>&lt;1</b>	---	---
Lead ppm ASTM D5185m	>100	<b>0</b>	---	---
Copper ppm ASTM D5185m	>50	<b>&lt;1</b>	---	---
Tin ppm ASTM D5185m	>10	<b>0</b>	---	---
Vanadium ppm ASTM D5185m		<b>0</b>	---	---
Cadmium ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		<b>1</b>	---	---
Barium ppm ASTM D5185m		<b>&lt;1</b>	---	---
Molybdenum ppm ASTM D5185m		<b>0</b>	---	---
Manganese ppm ASTM D5185m		<b>1</b>	---	---
Magnesium ppm ASTM D5185m		<b>1</b>	---	---
Calcium ppm ASTM D5185m		<b>6</b>	---	---
Phosphorus ppm ASTM D5185m		<b>479</b>	---	---
Zinc ppm ASTM D5185m		<b>23</b>	---	---
Sulfur ppm ASTM D5185m		<b>4856</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>50	<b>8</b>	---	---
Sodium ppm ASTM D5185m		<b>0</b>	---	---
Potassium ppm ASTM D5185m	>20	<b>4</b>	---	---
Water % ASTM D6304	>0.1	<b>0.007</b>	---	---
ppm Water ppm ASTM D6304	>1000	<b>71.6</b>	---	---

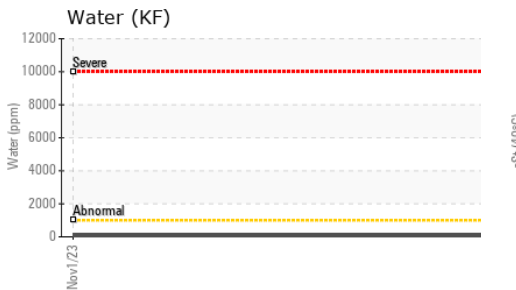
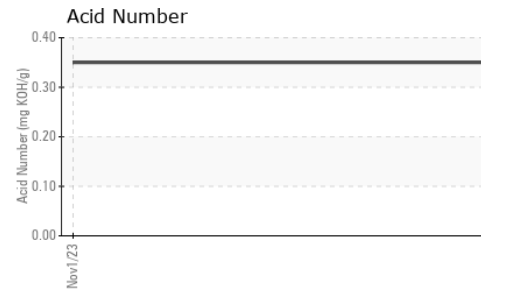
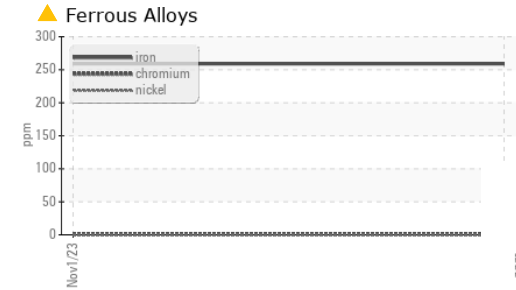
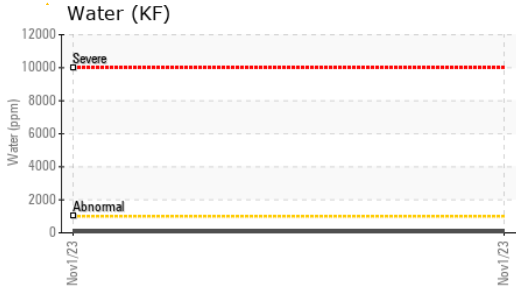
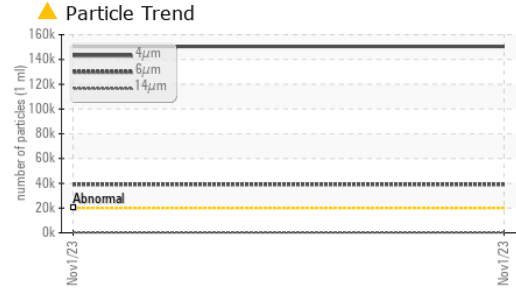
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>20000	<b>▲ 150495</b>	---	---
Particles >6µm ASTM D7647	>5000	<b>▲ 39111</b>	---	---
Particles >14µm ASTM D7647	>640	<b>380</b>	---	---
Particles >21µm ASTM D7647	>160	<b>55</b>	---	---
Particles >38µm ASTM D7647	>40	<b>0</b>	---	---
Particles >71µm ASTM D7647	>10	<b>0</b>	---	---
Oil Cleanliness ISO 4406 (c)	>21/19/16	<b>▲ 24/22/16</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		<b>0.35</b>	---	---

# OIL ANALYSIS REPORT



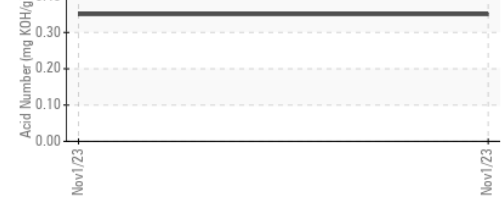
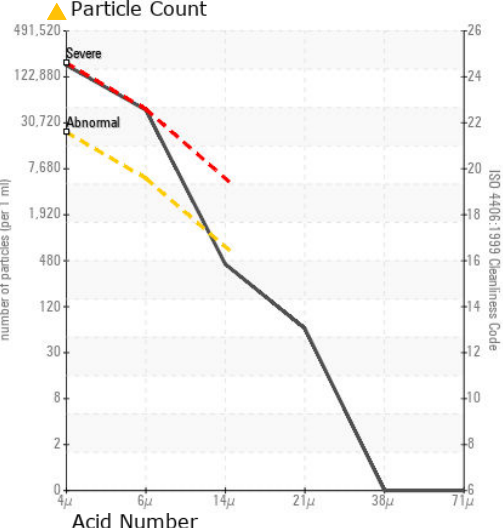
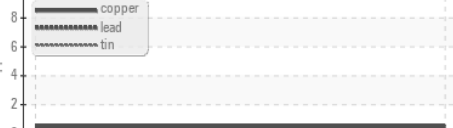
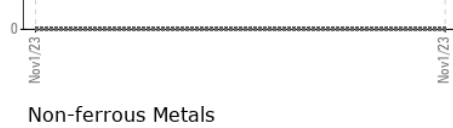
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	228	---

### SAMPLE IMAGES

method	limit/base	current	history1	history2
Color				
Bottom				

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP0003041  
**Lab Number** : 05996729  
**Unique Number** : 10725089  
**Test Package** : IND 2

**TYSON HILLSHIRE - SAINT JOSEPH**  
 5807 MITCHELL AVE  
 SAINT JOSEPH, MO  
 US 64507  
 Contact:

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)

T:  
F: