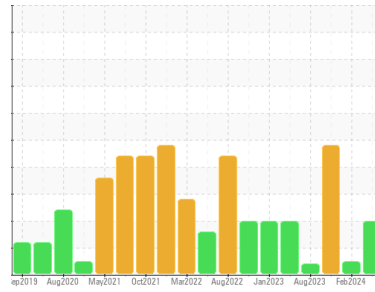




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**SOUTH BONE CANNON**  
 Component  
**Hydraulic System**  
 Fluid  
**USPI FG HYD 46 (--- GAL)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of particulates 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>USPM37623</b>	USPM30308	USPM31411
Sample Date	Client Info	<b>09 Jun 2024</b>	28 Feb 2024	26 Nov 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	NORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	0	<1
Chromium	ppm	ASTM D5185m >20	0	<1
Nickel	ppm	ASTM D5185m >20	0	<1
Titanium	ppm	ASTM D5185m	0	0
Silver	ppm	ASTM D5185m	0	0
Aluminum	ppm	ASTM D5185m >20	0	<1
Lead	ppm	ASTM D5185m >20	0	<1
Copper	ppm	ASTM D5185m >20	0	<1
Tin	ppm	ASTM D5185m >20	0	<1
Vanadium	ppm	ASTM D5185m	0	0
Cadmium	ppm	ASTM D5185m	0	<1

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	
Barium	ppm	ASTM D5185m	<1	<1	
Molybdenum	ppm	ASTM D5185m	0	<1	
Manganese	ppm	ASTM D5185m	<1	<1	
Magnesium	ppm	ASTM D5185m	<1	0	
Calcium	ppm	ASTM D5185m	3	4	
Phosphorus	ppm	ASTM D5185m 725	456	425	499
Zinc	ppm	ASTM D5185m	6	0	0
Sulfur	ppm	ASTM D5185m 625	602	469	540

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	<1	<1	1
Sodium	ppm	ASTM D5185m	2	1	0
Potassium	ppm	ASTM D5185m >20	2	0	<1
Water	%	ASTM D6304 >0.05	0.001	0.066	▲ 0.110
ppm Water	ppm	ASTM D6304 >500	14	660	▲ 1100

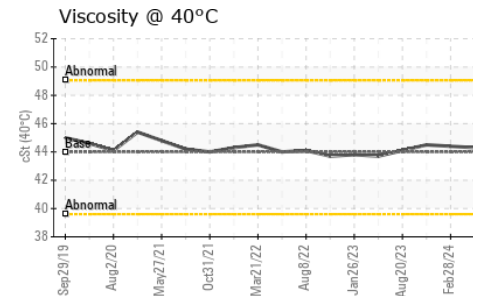
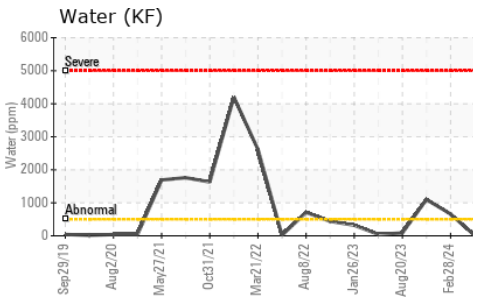
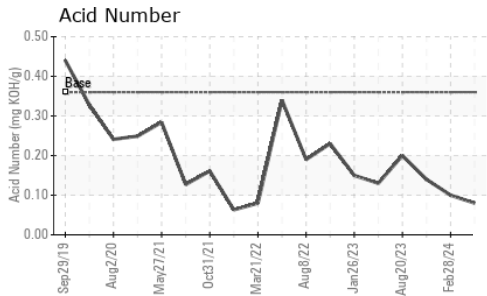
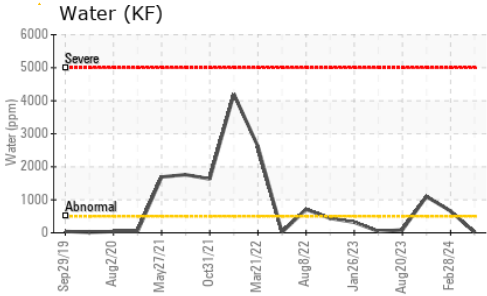
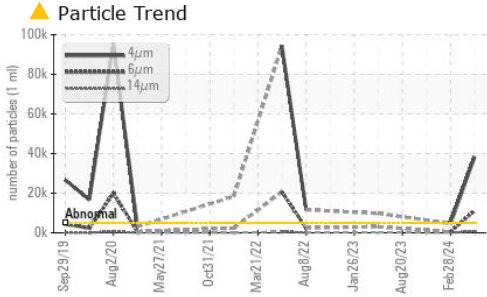
## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 38300	4610	---
Particles >6µm	ASTM D7647 >1300	▲ 11070	478	---
Particles >14µm	ASTM D7647 >160	▲ 680	12	---
Particles >21µm	ASTM D7647 >40	▲ 140	3	---
Particles >38µm	ASTM D7647 >10	2	0	---
Particles >71µm	ASTM D7647 >3	0	0	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 22/21/17	19/16/11	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.36	0.08	0.10	0.14

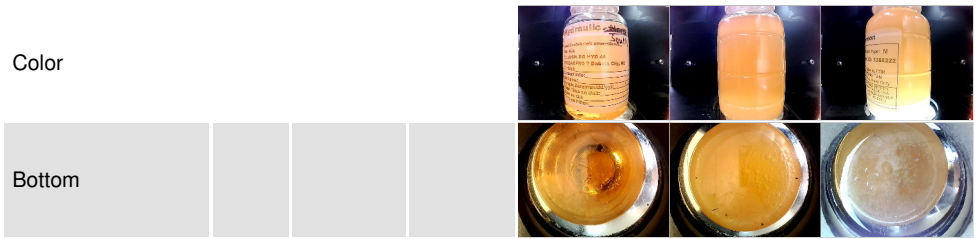
# OIL ANALYSIS REPORT



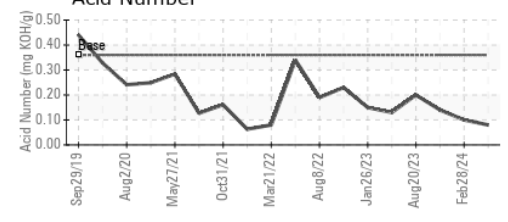
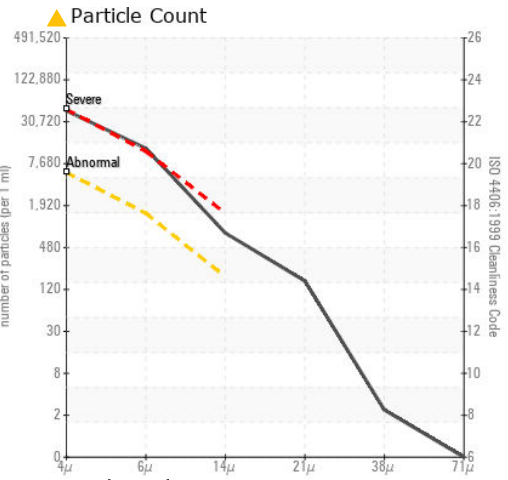
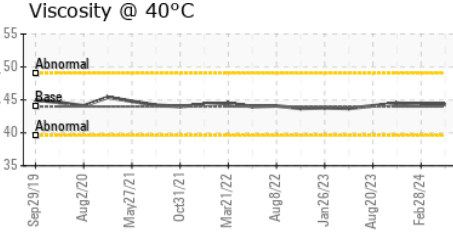
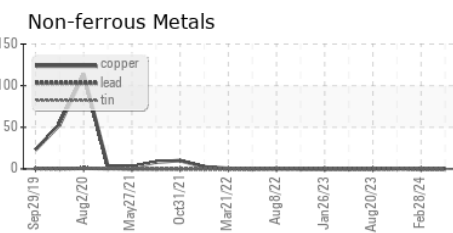
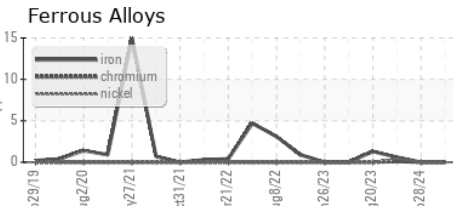
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	▲ MODER
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	● HAZY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	0.2%
Free Water	scalar	*Visual		NEG	▲ 10.0

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	44	44.3	44.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USPM37623 **Received** : 10 Jun 2024  
**Lab Number** : 06205517 **Tested** : 12 Jun 2024  
**Unique Number** : 11072978 **Diagnosed** : 12 Jun 2024 - Doug Bogart  
**Test Package** : IND 2

**TYSON-DAKOTA CITY-PRO**  
 P.O. BOX 515  
 DAKOTA CITY, NE  
 US 68731  
 Contact: Service Manager

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)