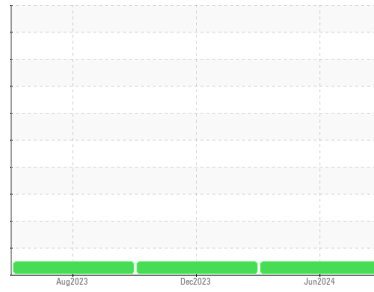




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id

## 8600 14 PUMP 3 (S/N 0141900131)

Component

**Vacuum Pump**

Fluid

**USPI VAC 100 (--- GAL)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

#### 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>USPM37673</b>	USPM31895	USP0000511
Sample Date	Client Info	<b>05 Jun 2024</b>	07 Dec 2023	22 Aug 2023
Machine Age	hrs	Client Info	<b>0</b>	0
Oil Age	hrs	Client Info	<b>0</b>	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

### WEAR METALS

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

### ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	<b>0</b>	0
Barium	ppm	ASTM D5185m	0	<b>0</b>	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0
Manganese	ppm	ASTM D5185m		<b>0</b>	<1
Magnesium	ppm	ASTM D5185m	0	<b>0</b>	0
Calcium	ppm	ASTM D5185m	0	<b>0</b>	<1
Phosphorus	ppm	ASTM D5185m	1800	<b>861</b>	998
Zinc	ppm	ASTM D5185m	0	<b>0</b>	0
Sulfur	ppm	ASTM D5185m	0	<b>17</b>	19

### CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	<b>10</b>	11
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	2
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0
Water	%	ASTM D6304	>.1	<b>0.052</b>	0.060
ppm Water	ppm	ASTM D6304	>1000	<b>527</b>	605

### FLUID CLEANLINESS

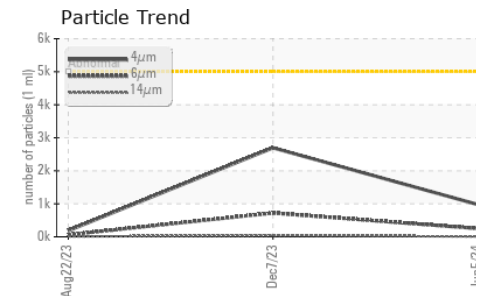
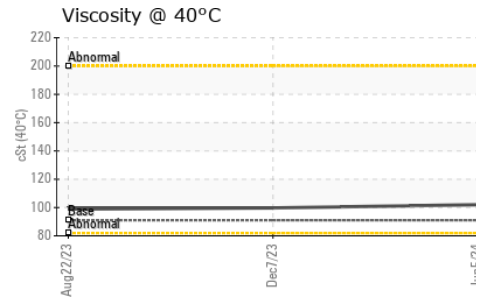
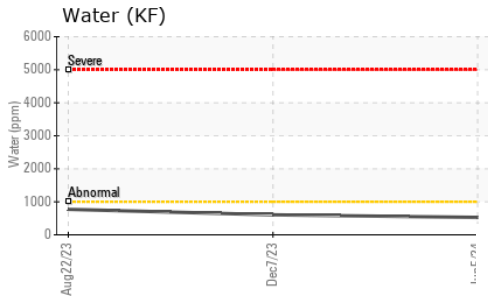
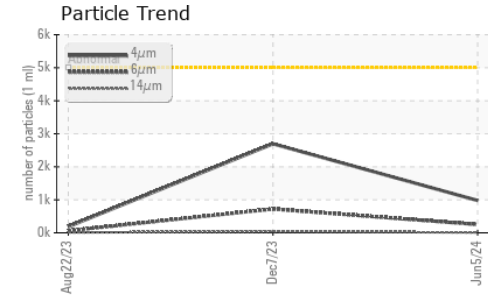
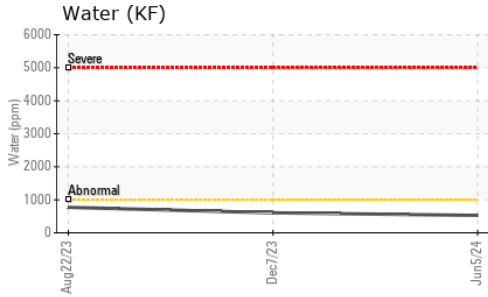
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>979</b>	2696
Particles >6µm	ASTM D7647	>1300	<b>253</b>	722
Particles >14µm	ASTM D7647	>160	<b>9</b>	38
Particles >21µm	ASTM D7647	>40	<b>3</b>	6
Particles >38µm	ASTM D7647	>10	<b>1</b>	1
Particles >71µm	ASTM D7647	>3	<b>0</b>	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>17/15/10</b>	19/17/12

### FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	<b>0.24</b>



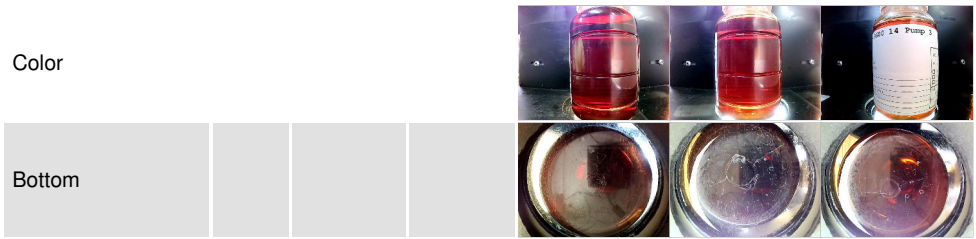
# OIL ANALYSIS REPORT



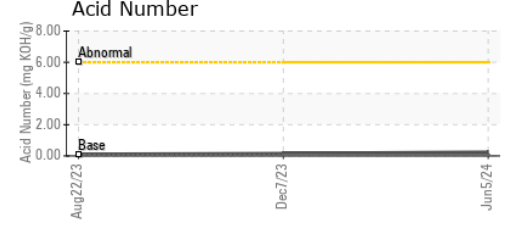
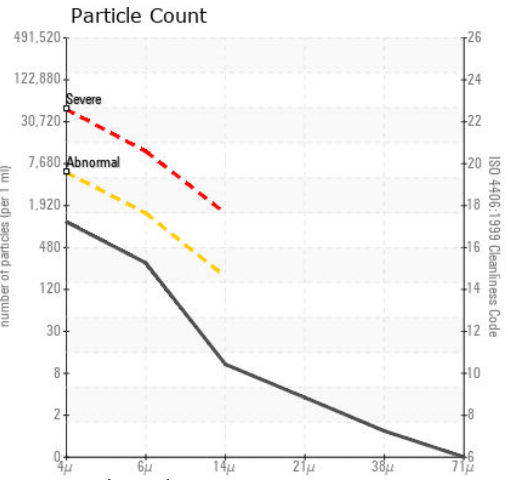
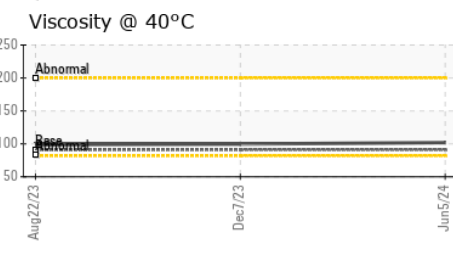
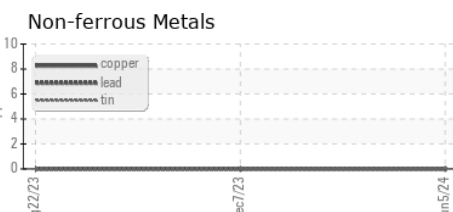
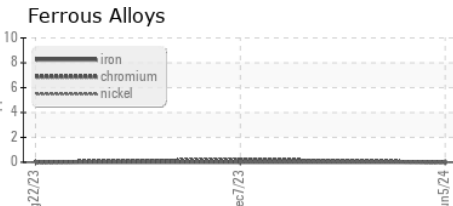
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 91	102	99.7	99.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USPM37673  
**Lab Number** : 06206568  
**Unique Number** : 11074029  
**Test Package** : IND 2  
**Received** : 11 Jun 2024  
**Tested** : 13 Jun 2024  
**Diagnosed** : 14 Jun 2024 - Doug Bogart

**JBS - OMAHA**  
 3435 EDWARD BABE GOMEZ AVE  
 OMAHA, NE  
 US 68107  
 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)