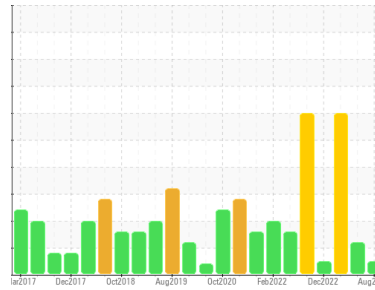




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**VM-7-VPP (S/N UO80601162)**

Component  
**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 a trace of moisture present 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>USPM29462</b>	USPM28135	USPM25498
Sample Date	Client Info	<b>29 Aug 2023</b>	21 May 2023	29 Dec 2022
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>NORMAL</b>	ATTENTION	SEVERE

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >90	<b>7</b>	7	▲ 62
Chromium	ppm	ASTM D5185m >5	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m >3	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >7	<b>&lt;1</b>	<1	1
Lead	ppm	ASTM D5185m >12	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m >30	<b>0</b>	<1	2
Tin	ppm	ASTM D5185m >9	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 0	<b>0</b>	0	<1
Barium	ppm	ASTM D5185m 0	<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m 0	<b>19</b>	21	0
Calcium	ppm	ASTM D5185m 0	<b>40</b>	41	1
Phosphorus	ppm	ASTM D5185m 1800	<b>759</b>	772	537
Zinc	ppm	ASTM D5185m 0	<b>18</b>	20	176
Sulfur	ppm	ASTM D5185m 0	<b>0</b>	0	47

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >60	<b>3</b>	3	7
Sodium	ppm	ASTM D5185m	<b>3</b>	5	176
Potassium	ppm	ASTM D5185m >20	<b>1</b>	2	<1
Water	%	ASTM D6304	<b>0.116</b>	0.045	0.034
ppm Water	ppm	ASTM D6304 >.1	<b>1164.9</b>	453.0	347.7

## FLUID CLEANLINESS

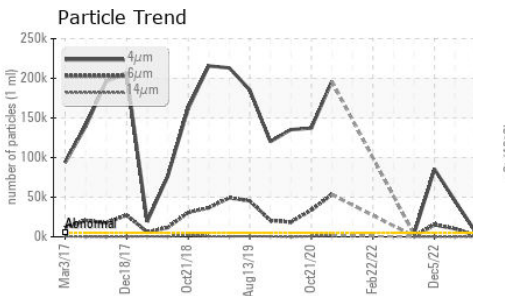
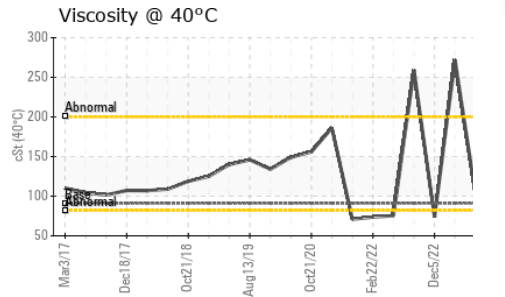
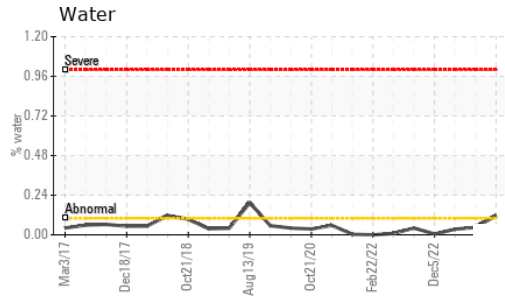
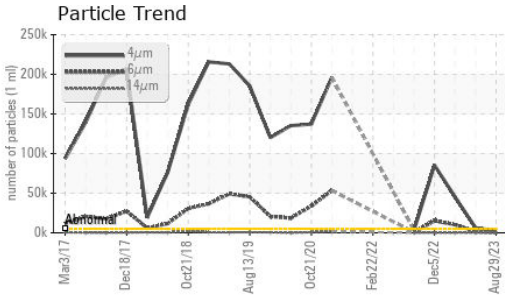
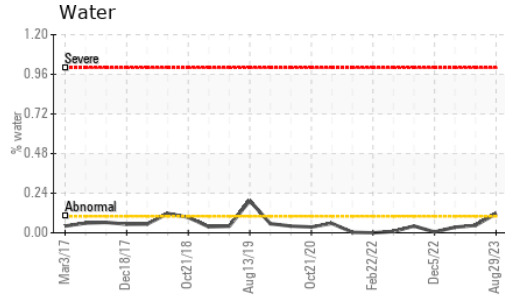
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>2767</b>	▲ 6332	▲ 45349
Particles >6µm	ASTM D7647 >1300	<b>344</b>	▲ 1614	▲ 10284
Particles >14µm	ASTM D7647 >160	<b>23</b>	90	▲ 167
Particles >21µm	ASTM D7647 >40	<b>8</b>	18	18
Particles >38µm	ASTM D7647 >10	<b>1</b>	1	3
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	1
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>19/16/12</b>	▲ 20/18/14	▲ 23/21/15

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.05	<b>0.51</b>	0.53	● 7.98



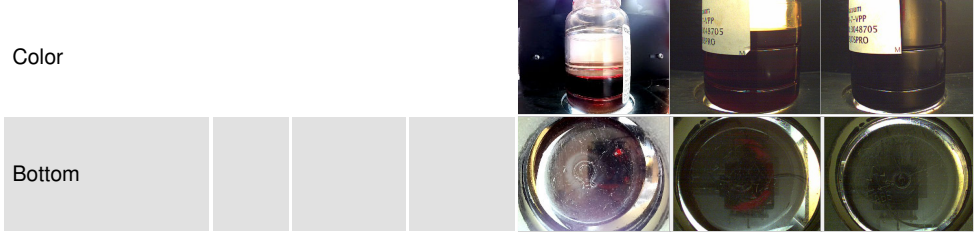
# OIL ANALYSIS REPORT



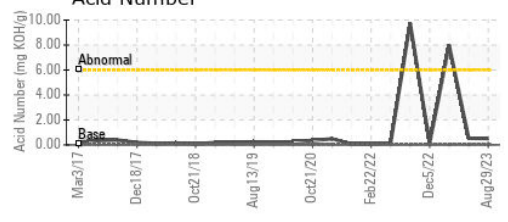
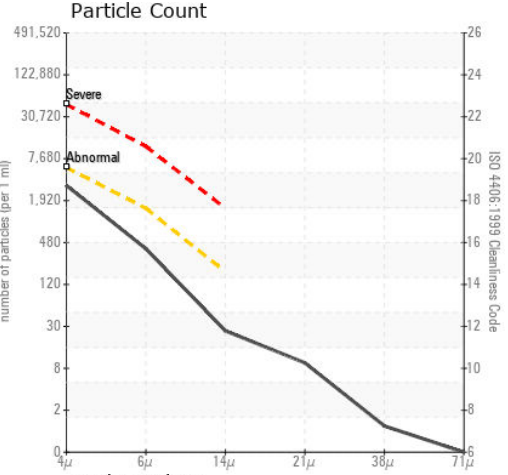
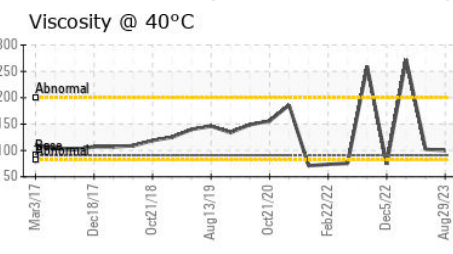
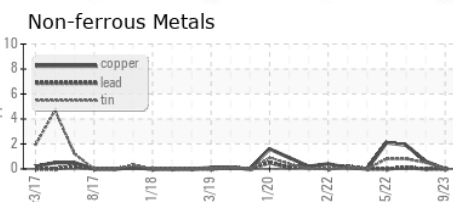
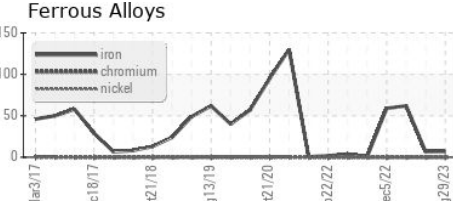
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 91	100	102	▲ 272

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USPM29462  
**Lab Number** : 05938992  
**Unique Number** : 10629604  
**Test Package** : IND 2  
**Received** : 30 Aug 2023  
**Diagnosed** : 01 Sep 2023  
**Diagnostician** : Doug Bogart

**TYSON - PROCESS/SLAUGHTER - MAIN PLANT**  
 28424 38TH AVE N  
 JOSLIN, IL  
 US 61257  
 Contact: RICK DUVAL

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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