



# PROBLEM SUMMARY

Sample Rating Trend

DEGRADATION



Machine Id

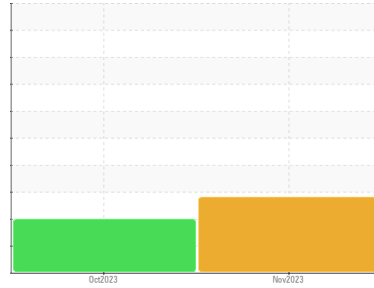
**C-1 (S/N 2023074)**

Component

**Refrigeration Compressor**

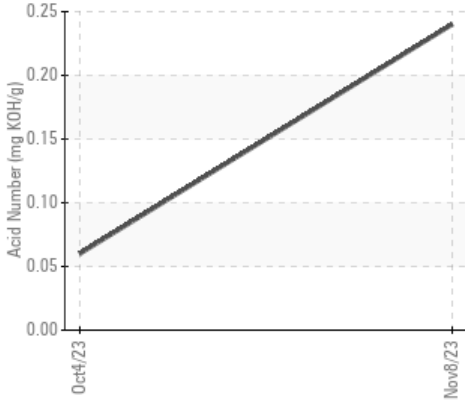
Fluid

**20382 USPI FG CLT 68 FLUID (100 GAL)**

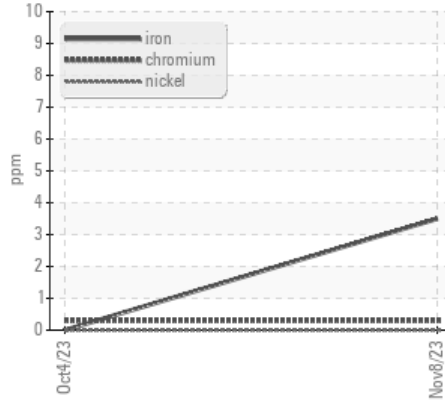


## COMPONENT CONDITION SUMMARY

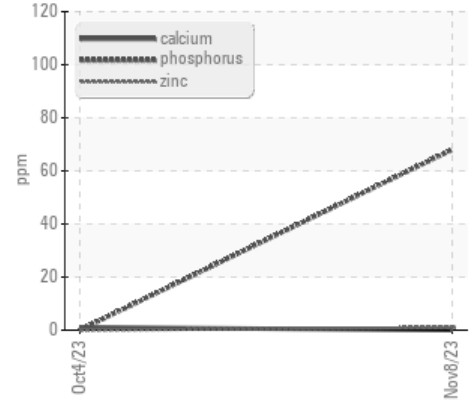
### ▲ Acid Number



### ▲ Ferrous Alloys



### ▲ Additives



## RECOMMENDATION

We advise an early resample to confirm this situation.

## PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	ABNORMAL	---
Iron	ppm	ASTM D5185m	>8	▲ 4	0	---
Phosphorus	ppm	ASTM D5185m		▲ 68	0	---
Sulfur	ppm	ASTM D5185m		▲ 56	0	---
Acid Number (AN)	mg KOH/g	ASTM D974		▲ 0.24	0.06	---

Customer Id: POESAI  
 Sample No.: USPM27102  
 Lab Number: 06015182  
 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

Action	Status	Date	Done By	Description
Resample	---	---	?	We advise an early resample to confirm this situation.

HISTORICAL DIAGNOSIS

04 Oct 2023 Diag: Doug Bogart

WATER



We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. Confirmed. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

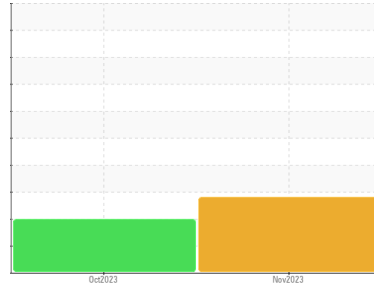
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Machine Id

**C-1 (S/N 2023074)**

Component

**Refrigeration Compressor**

Fluid

**20382 USPI FG CLT 68 FLUID (100 GAL)**

## DIAGNOSIS

### ▲ Recommendation

We advise an early resample to confirm this situation.

### ▲ 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

Additive levels indicate the addition of a different brand or type of oil. The AN level is at the top-end of the recommended limit. Confirmed.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>USPM27102</b>	USPM27101	---
Sample Date	Client Info	<b>08 Nov 2023</b>	04 Oct 2023	---
Machine Age	mths	Client Info	<b>0</b>	0
Oil Age	mths	Client Info	<b>1</b>	12
Oil Changed	Client Info	<b>N/A</b>	Changed	---
Sample Status		<b>ATTENTION</b>	ABNORMAL	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >8	<b>▲ 4</b>	0
Chromium	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1
Nickel	ppm	ASTM D5185m	<b>0</b>	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0
Aluminum	ppm	ASTM D5185m >3	<b>0</b>	0
Lead	ppm	ASTM D5185m >2	<b>0</b>	0
Copper	ppm	ASTM D5185m >8	<b>0</b>	0
Tin	ppm	ASTM D5185m >4	<b>0</b>	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0
Barium	ppm	ASTM D5185m	<b>0</b>	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0
Manganese	ppm	ASTM D5185m	<b>0</b>	<1
Magnesium	ppm	ASTM D5185m	<b>0</b>	0
Calcium	ppm	ASTM D5185m	<b>0</b>	1
Phosphorus	ppm	ASTM D5185m	<b>▲ 68</b>	0
Zinc	ppm	ASTM D5185m	<b>1</b>	0
Sulfur	ppm	ASTM D5185m	<b>▲ 56</b>	0

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>0</b>	0
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	0
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0
Water	%	ASTM D6304 >0.01	<b>0.003</b>	<b>▲ 0.037</b>
ppm Water	ppm	ASTM D6304 >100	<b>39</b>	<b>▲ 371</b>

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>592</b>	---	---
Particles >6µm	ASTM D7647 >2500	<b>144</b>	---	---
Particles >14µm	ASTM D7647 >320	<b>12</b>	---	---
Particles >21µm	ASTM D7647 >80	<b>4</b>	---	---
Particles >38µm	ASTM D7647 >20	<b>1</b>	---	---
Particles >71µm	ASTM D7647 >4	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c) >20/18/15	<b>16/14/11</b>	---	---

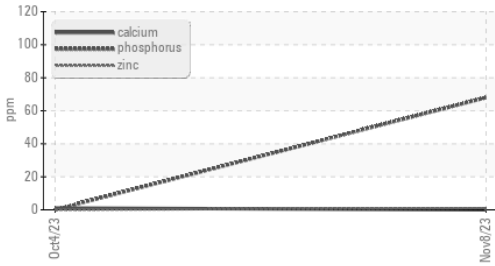
## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	<b>▲ 0.24</b>	0.06

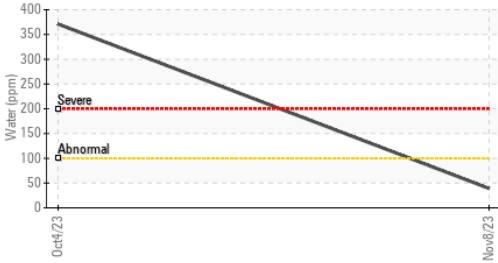


# OIL ANALYSIS REPORT

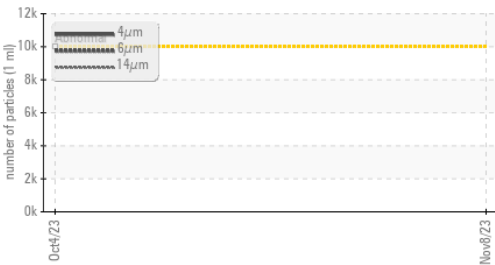
## Additives



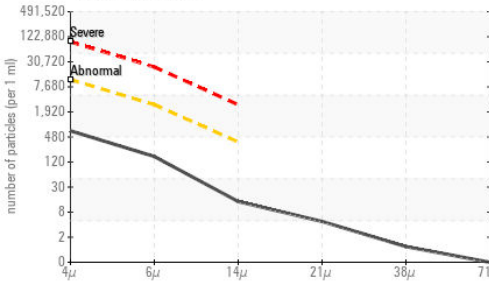
## Water (KF)



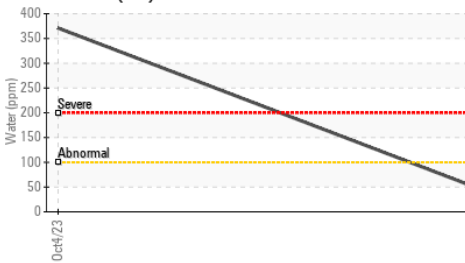
## Particle Trend



## Particle Count



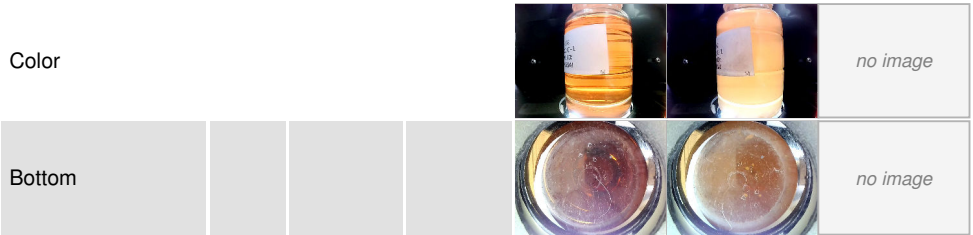
## Water (KF)



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	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.01	NEG	---
Free Water	scalar	*Visual		NEG	---

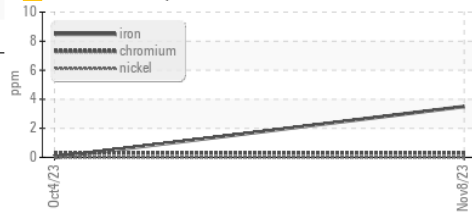
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65.8	64.8	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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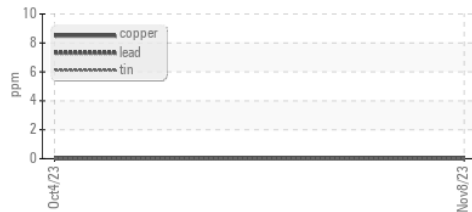


## GRAPHS

### Ferrous Alloys



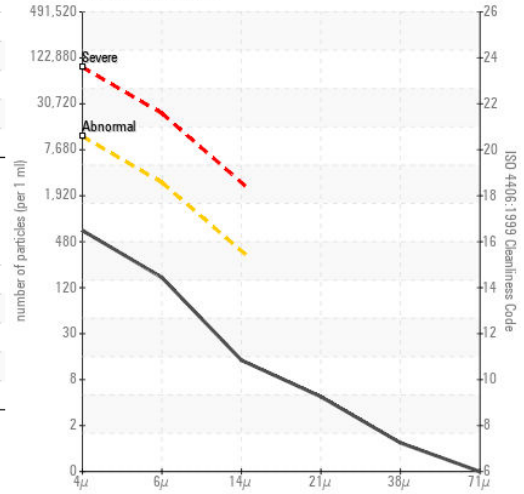
### Non-ferrous Metals



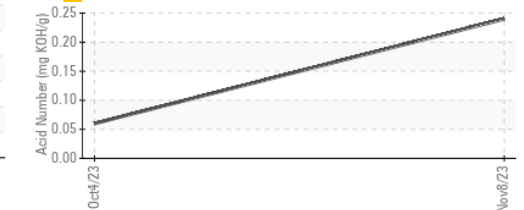
### Viscosity @ 40°C



### Particle Count



### Acid Number



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USPM27102 **Received** : 22 Nov 2023  
**Lab Number** : 06015182 **Diagnosed** : 28 Nov 2023  
**Unique Number** : 10754326 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**POET PURE - ST JOSEPH MO**  
 2811 S 11TH ST  
 SAINT JOSEPH, MO  
 US 64503  
 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)

T:  
F: