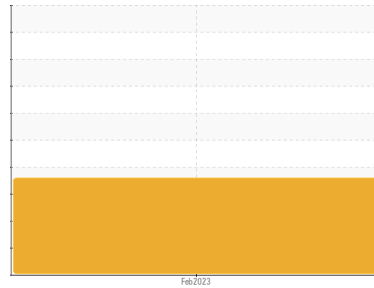


# PROBLEM SUMMARY

Area  
**STEAM AND POWER**  
 Machine Id  
**424.1250 # 9 AIR COMPRESSOR**  
 Component  
**Air Compressor**  
 Fluid  
**PENNZOIL DEXRON MERCON ATF FLUID (15 GAL)**

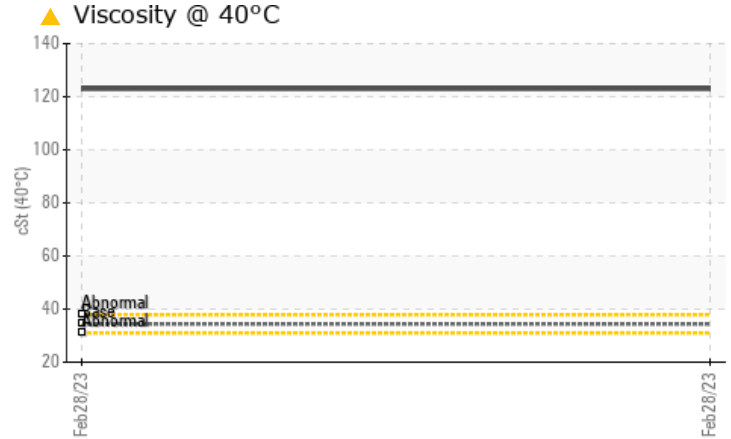
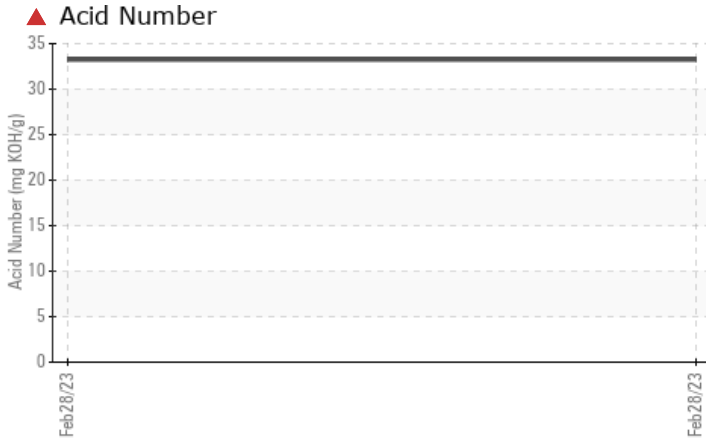
Sample Rating Trend



**DEGRADATION**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

Recommend drain oil if not already done and flush before refilling with oil. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status	mg KOH/g	ASTM D8045	SEVERE	---	---
Acid Number (AN)	33.25		▲ 33.25	---	---
Visc @ 40°C	123	34.35	▲ 123	---	---

Customer Id: PORPORWA  
 Sample No.: PE0000296  
 Lab Number: 05786118  
 Test Package: PLANT



To manage this report scan the QR code

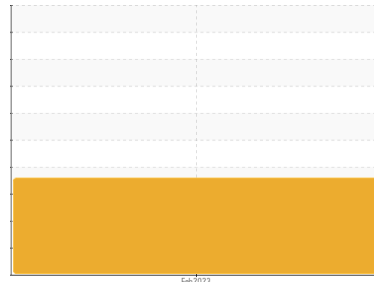
To discuss the diagnosis or test data:  
 Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

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
Change Fluid	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Flush System	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS



Area  
**STEAM AND POWER**  
 Machine ID  
**424.1250 # 9 AIR COMPRESSOR**  
 Component  
**Air Compressor**  
 Fluid  
**PENNZOIL DEXRON MERCON ATF FLUID (15 GAL)**

**DIAGNOSIS**

**▲ Recommendation**  
 Recommend drain oil if not already done and flush before refilling with oil. We recommend an early resample to monitor this condition.

**Wear**  
 All component wear rates are normal.

**Contamination**  
 The amount and size of particulates present in the system are acceptable.

**▲ Fluid Condition**  
 The oil viscosity is higher than normal because of excessive oxidation. The AN level is above the recommended limit. Additives are consistent with reported ATF fluid.

**SAMPLE INFORMATION**    method    limit/base    current    history1    history2

Sample Number	Client Info		<b>PE0000296</b>	---	---
Sample Date	Client Info		<b>28 Feb 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>SEVERE</b>	---	---

**WEAR METALS**    method    limit/base    current    history1    history2

PQ		ASTM D8184		<b>21</b>	---	---
Iron	ppm	ASTM D5185m	>50	<b>2</b>	---	---
Chromium	ppm	ASTM D5185m	>4	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185m	>20	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>40	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185m	>5	<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>28</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>2</b>	---	---
Calcium	ppm	ASTM D5185m		<b>96</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>191</b>	---	---
Zinc	ppm	ASTM D5185m		<b>42</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>469</b>	---	---

**CONTAMINANTS**    method    limit/base    current    history1    history2

Silicon	ppm	ASTM D5185m	>25	<b>2</b>	---	---
Sodium	ppm	ASTM D5185m		<b>51</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	---	---
Water	%	ASTM D6304	>0.6	<b>NEG</b>	---	---

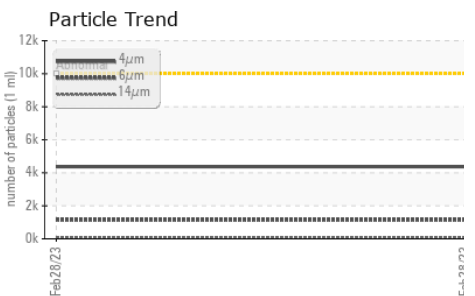
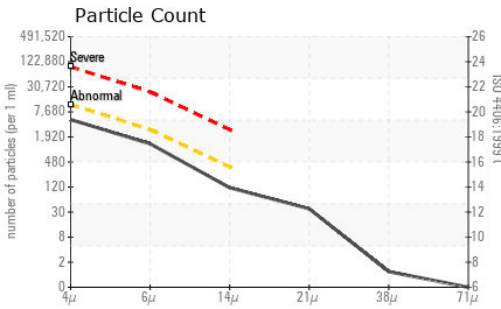
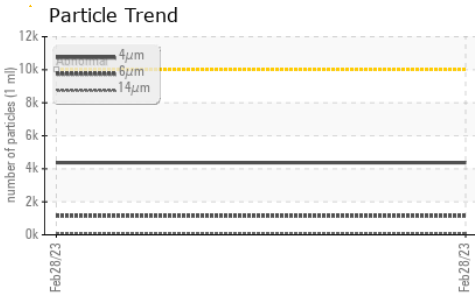
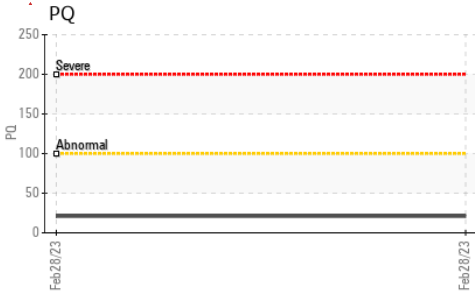
**FLUID CLEANLINESS**    method    limit/base    current    history1    history2

Particles >4µm		ASTM D7647	>10000	<b>4369</b>	---	---
Particles >6µm		ASTM D7647	>2500	<b>1148</b>	---	---
Particles >14µm		ASTM D7647	>320	<b>102</b>	---	---
Particles >21µm		ASTM D7647	>80	<b>32</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>19/17/14</b>	---	---

**FLUID DEGRADATION**    method    limit/base    current    history1    history2

Acid Number (AN)	mg KOH/g	ASTM D8045		<b>▲ 33.25</b>	---	---
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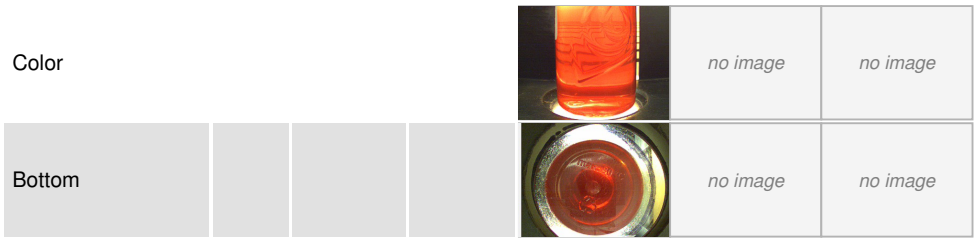
# OIL ANALYSIS REPORT



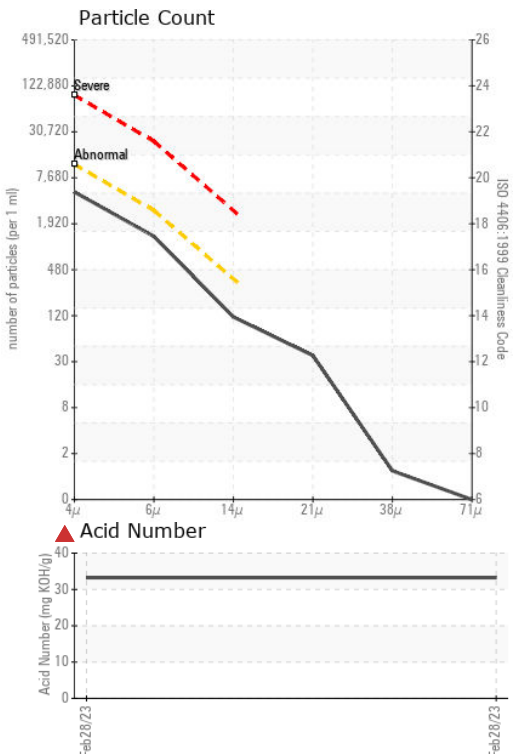
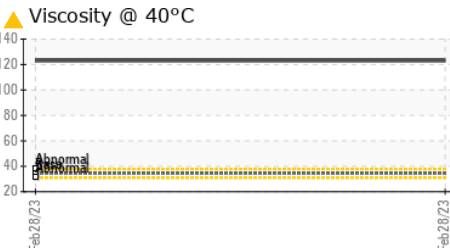
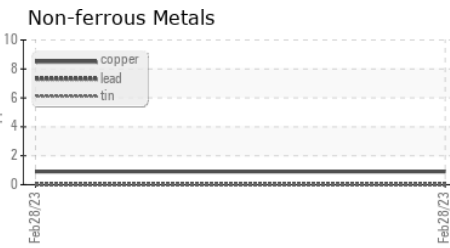
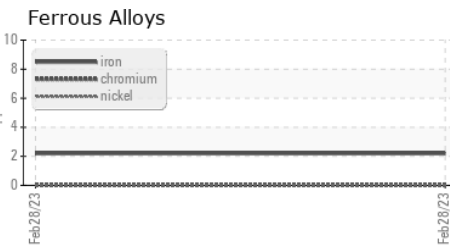
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.6	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	34.35 ▲ 123	---	---

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PE0000296 **Received** : 08 Mar 2023  
**Lab Number** : 05786118 **Tested** : 13 Mar 2023  
**Unique Number** : 10370789 **Diagnosed** : 13 Mar 2023 - Doug Bogart  
**Test Package** : PLANT ( Additional Tests: ICP, KF, KV40, PQ, PrtCount, SCREEN )

**Port Townsend Paper Corporation**  
 100 Mill Rd  
 Port Townsend, WA  
 US 98368  
 Contact: LONNIE LOREE  
 lonnie.loree@ptpc.com  
 T: (907)738-6506  
 F:

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)