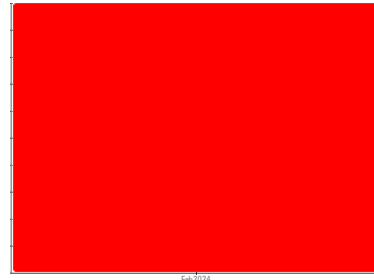




# PROBLEM SUMMARY

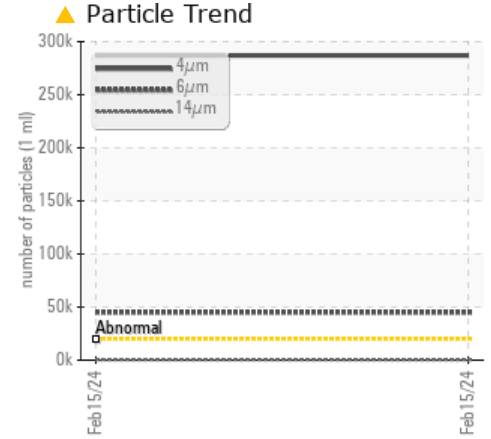
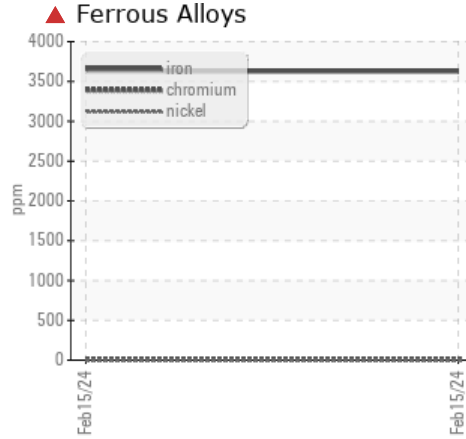
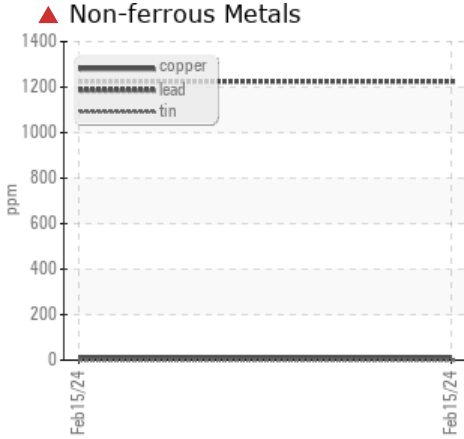
Sample Rating Trend

WEAR



Machine Id  
**PM3-002**  
Component  
**Gearbox**  
Fluid  
{not provided} (--- GAL)

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We recommend an early resample to monitor this condition. Pour Point -36C.

## PROBLEMATIC TEST RESULTS

Sample Status	SEVERE	---	---
Iron ppm ASTM D5185m >200	▲ 3628	---	---
Lead ppm ASTM D5185m >100	▲ 1225	---	---
Particles >4µm ASTM D7647 >20000	▲ 286884	---	---
Particles >6µm ASTM D7647 >5000	▲ 45065	---	---
Oil Cleanliness ISO 4406 (c) >21/19/16	▲ 25/23/16	---	---

Customer Id: CARVALGA  
Sample No.: USP0008124  
Lab Number: 06137017  
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

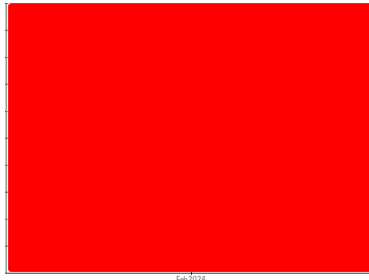
Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id  
**PM3-002**  
Component  
**Gearbox**  
Fluid  
**{not provided} (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

We recommend an early resample to monitor this condition. Pour Point -36C.

### ▲ Wear

Bearing and/or gear wear is indicated.

### ▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

### Fluid Condition

Confirm oil type. The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>USP0008124</b>	---	---
Sample Date	Client Info		<b>15 Feb 2024</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
Iron	ppm	ASTM D5185m >200	<b>▲ 3628</b>	---	---
Chromium	ppm	ASTM D5185m >15	<b>8</b>	---	---
Nickel	ppm	ASTM D5185m >15	<b>4</b>	---	---
Titanium	ppm	ASTM D5185m	<b>2</b>	---	---
Silver	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m >25	<b>4</b>	---	---
Lead	ppm	ASTM D5185m >100	<b>▲ 1225</b>	---	---
Copper	ppm	ASTM D5185m >200	<b>13</b>	---	---
Tin	ppm	ASTM D5185m >25	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>17</b>	---	---
Barium	ppm	ASTM D5185m	<b>1</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>12</b>	---	---
Manganese	ppm	ASTM D5185m	<b>29</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>7</b>	---	---
Calcium	ppm	ASTM D5185m	<b>846</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>815</b>	---	---
Zinc	ppm	ASTM D5185m	<b>358</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>2161</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>35</b>	---	---
Sodium	ppm	ASTM D5185m	<b>4</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>9</b>	---	---
Water	%	ASTM D6304 >0.2	<b>0.030</b>	---	---
ppm Water	ppm	ASTM D6304 >2000	<b>306</b>	---	---

## FLUID CLEANLINESS

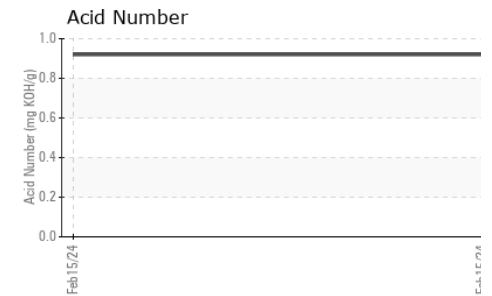
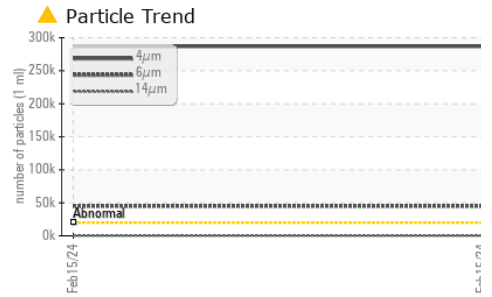
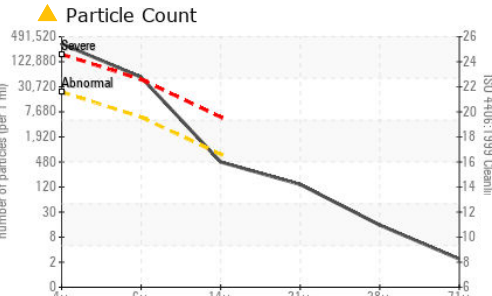
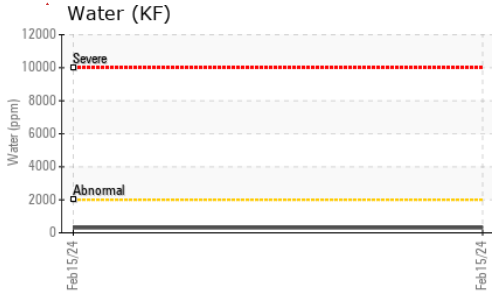
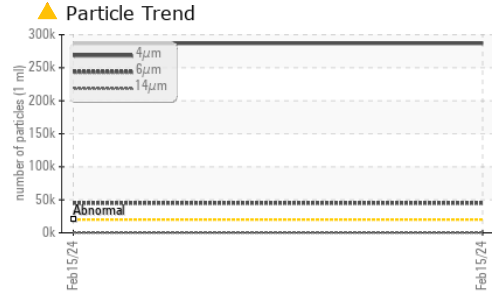
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>▲ 286884</b>	---	---
Particles >6µm	ASTM D7647	>5000	<b>▲ 45065</b>	---	---
Particles >14µm	ASTM D7647	>640	<b>421</b>	---	---
Particles >21µm	ASTM D7647	>160	<b>122</b>	---	---
Particles >38µm	ASTM D7647	>40	<b>13</b>	---	---
Particles >71µm	ASTM D7647	>10	<b>2</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>▲ 25/23/16</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.92</b>	---	---



# OIL ANALYSIS REPORT



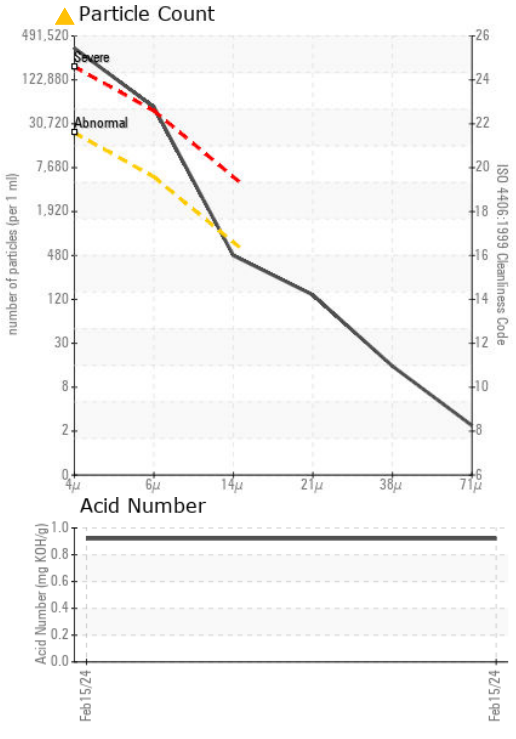
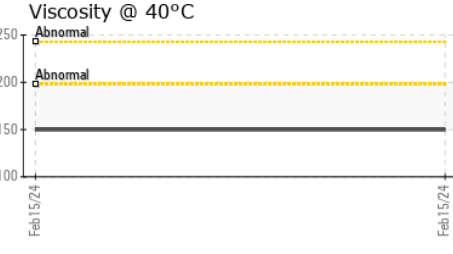
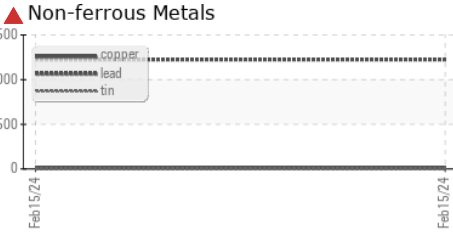
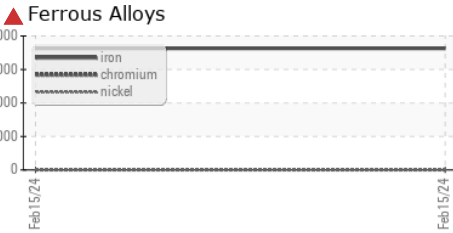
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	149.8	---	---
Pour Point	°C	ASTM D5950	-36	---	---

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

Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP0008124      **Received** : 02 Apr 2024  
**Lab Number** : 06137017      **Tested** : 11 Apr 2024  
**Unique Number** : 10956482      **Diagnosed** : 11 Apr 2024 - Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: PourPt )

**CARGILL CFN**  
 407 CLAY RD  
 VALDOSTA, GA  
 US 31601  
 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)