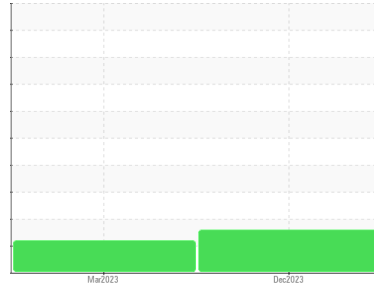




# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**4417657 (S/N 1055)**

Component  
**Compressor**

Fluid  
**CASCO USA MAXIMUM SYN LUBE (--- QTS)**

## DIAGNOSIS

### ▲ Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a high amount of particulates present in the oil.

### 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>KC101479</b>	KC101482	---
Sample Date	Client Info	<b>26 Dec 2023</b>	04 Mar 2023	---
Machine Age	hrs	<b>11554</b>	5609	---
Oil Age	hrs	<b>1117</b>	3160	---
Oil Changed	Client Info	<b>Not Changed</b>	Not Changed	---
Sample Status		<b>ABNORMAL</b>	ABNORMAL	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >50	<b>0</b>	0	---
Chromium ppm	ASTM D5185m >10	<b>0</b>	0	---
Nickel ppm	ASTM D5185m >3	<b>&lt;1</b>	0	---
Titanium ppm	ASTM D5185m >3	<b>0</b>	0	---
Silver ppm	ASTM D5185m >2	<b>&lt;1</b>	0	---
Aluminum ppm	ASTM D5185m >10	<b>&lt;1</b>	0	---
Lead ppm	ASTM D5185m >10	<b>2</b>	0	---
Copper ppm	ASTM D5185m >50	<b>2</b>	1	---
Tin ppm	ASTM D5185m >10	<b>1</b>	0	---
Vanadium ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium ppm	ASTM D5185m	<b>&lt;1</b>	0	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	<b>0</b>	0	---
Barium ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Molybdenum ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Manganese ppm	ASTM D5185m	<b>2</b>	0	---
Magnesium ppm	ASTM D5185m	<b>1</b>	0	---
Calcium ppm	ASTM D5185m	<b>2</b>	0	---
Phosphorus ppm	ASTM D5185m	<b>13</b>	21	---
Zinc ppm	ASTM D5185m	<b>0</b>	0	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >25	<b>2</b>	<1	---
Sodium ppm	ASTM D5185m	<b>2</b>	<1	---
Potassium ppm	ASTM D5185m >20	<b>4</b>	0	---
Water %	ASTM D6304 >0.05	<b>0.028</b>	0.016	---
ppm Water	ASTM D6304 >500	<b>282</b>	166.8	---

## FLUID CLEANLINESS

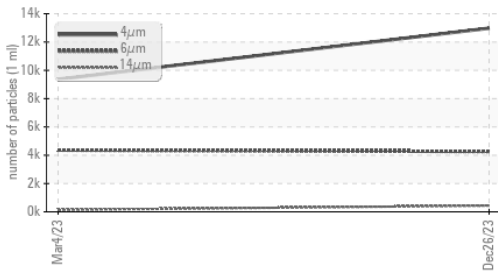
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>12976</b>	9367	---
Particles >6µm	ASTM D7647 >1300	▲ <b>4265</b>	▲ 4362	---
Particles >14µm	ASTM D7647 >80	▲ <b>437</b>	▲ 134	---
Particles >21µm	ASTM D7647 >20	▲ <b>120</b>	15	---
Particles >38µm	ASTM D7647 >4	<b>4</b>	2	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ <b>21/19/16</b>	▲ 20/19/14	---

## FLUID DEGRADATION

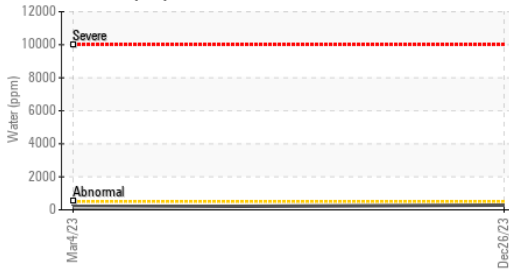
method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045	<b>0.27</b>	0.29	---

# OIL ANALYSIS REPORT

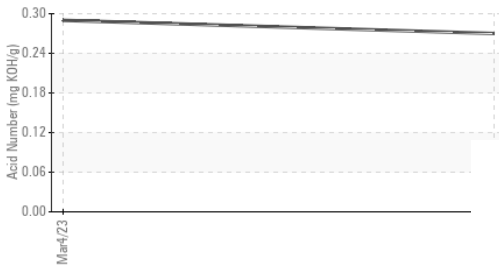
## ▲ Particle Trend



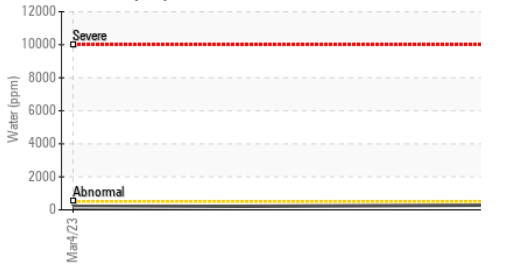
## Water (KF)



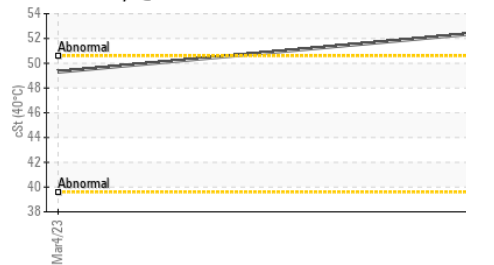
## Acid Number



## Water (KF)



## Viscosity @ 40°C



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	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	52.5	49.3	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

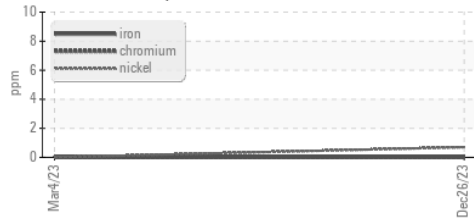


Bottom

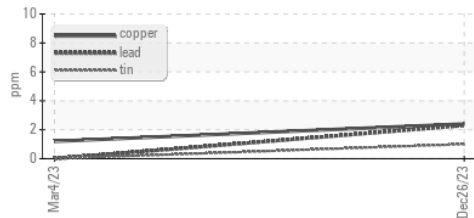


## GRAPHS

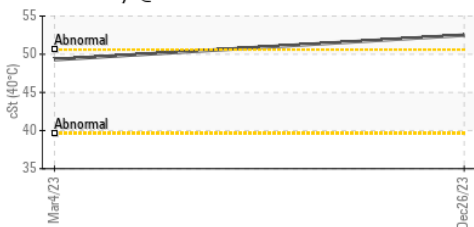
### Ferrous Alloys



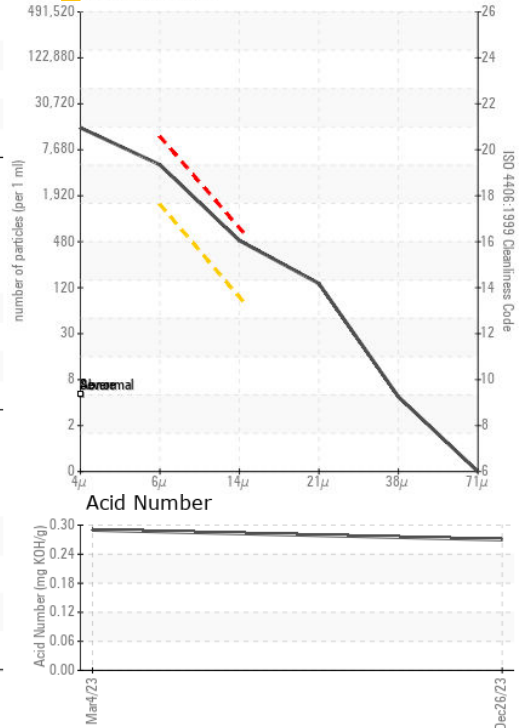
### Non-ferrous Metals



### Viscosity @ 40°C



### ▲ Particle Count



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC101479 **Received** : 01 Feb 2024  
**Lab Number** : 06077727 **Diagnosed** : 04 Feb 2024  
**Unique Number** : 10859818 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

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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