

# **PROBLEM SUMMARY**

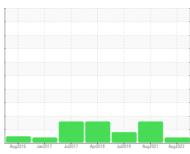
## Sample Rating Trend

# VIS DEBRIS

HS 3 (S/N S0127JFMPTHCA3)

**Refrigeration Compressor** Fluid

USPI 1009-68 SC (--- GAL)





## **COMPONENT CONDITION SUMMARY**

No relevant graphs to display

## RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL			
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT	VLITE			

Customer Id: CARFORCO Sample No.: USP248225 Lab Number: 05938339 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

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

## **RECOMMENDED ACTIONS**

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

## HISTORICAL DIAGNOSIS

## 11 Aug 2021 Diag: Doug Bogart





We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



## 01 Jul 2018 Diag: Doug Bogart

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

## 24 Apr 2018 Diag: Jonathan Hester

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

## Sample Rating Trend



HS 3 (S/N S0127JFMPTHCA3)

**Refrigeration Compressor** 

USPI 1009-68 SC (--- GAL)

## **DIAGNOSIS**

## Recommendation

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.

## Wear

All component wear rates are normal.

## Contamination

Moderate concentration of visible dirt/debris present in the oil.

## **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		Aug2016	Jan 2017 Jul 2017	Apr2018 Jul2018 Aug2021	Aug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP248225	USP217535	USP170607
Sample Date		Client Info		29 Aug 2023	11 Aug 2021	01 Jul 2018
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	2	5	8
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	1
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	0	0	0
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	1	<1
Phosphorus	ppm	ASTM D5185m		0	0	<1
Zinc	ppm	ASTM D5185m		<1	0	9
Sulfur	ppm	ASTM D5185m	50	0	39	18
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	0
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Water	%	ASTM D6304	>0.01	0.002	0.001	0.003
ppm Water	ppm	ASTM D6304	>100	22.6	13.6	30
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000		<u>▲</u> 100270	116737
Particles >6µm		ASTM D7647	>2500		<u>▲</u> 31584	<b>△</b> 30438
Particles >14µm		ASTM D7647	>320		<u> </u>	<u></u> 558
Particles >21µm		ASTM D7647	>80		<u>▲</u> 179	51
Particles >38µm		ASTM D7647	>20		0	0
Particles >71µm		ASTM D7647	>4		0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15		<u>4</u> 24/22/17	<u>4</u> 24/22/16

Acid Number (AN)

mg KOH/g ASTM D974 0.005

0.015 0.015

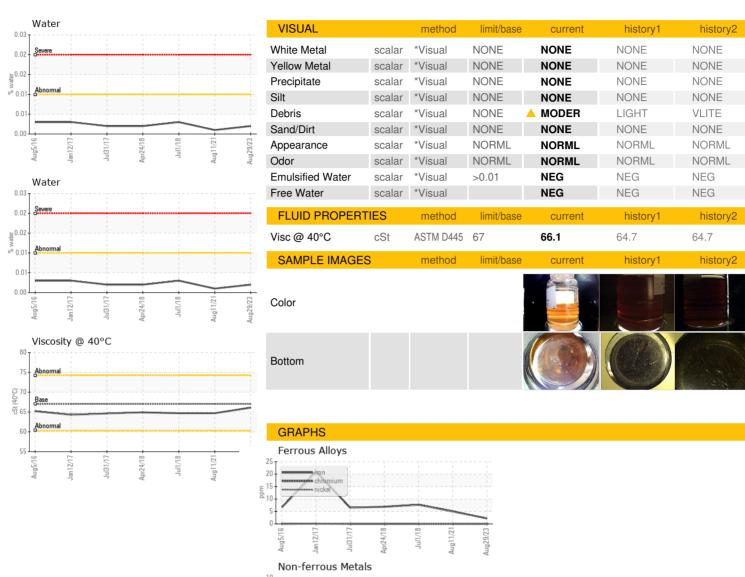
0.007

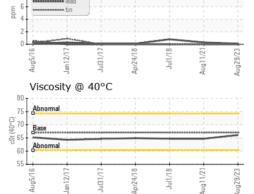
Report Id: CARFORCO [WUSCAR] 05938339 (Generated: 08/31/2023 12:59:22) Rev: 1

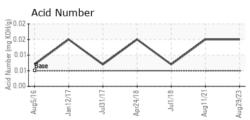
Contact/Location: ? ? - CARFORCO



# **OIL ANALYSIS REPORT**











Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USP248225 : 05938339

: IND 2

: 10628951

Received : 30 Aug 2023 Diagnosed : 31 Aug 2023 : Doug Bogart Diagnostician

**CARGILL** 

FORT MORGAN, CO

US Contact:

> T: 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)