

# **PROBLEM SUMMARY**

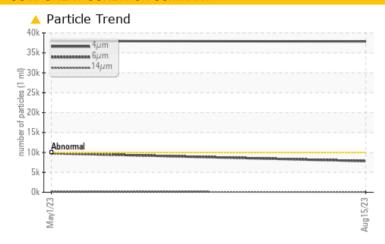
Area [3160795] SC-04 (S/N V2446)

Refrigeration Compressor

**FES 4 (70 GAL)** 

# Sample Rating Trend ISO

## **COMPONENT CONDITION SUMMARY**



## RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status		ABNORMAL	ABNORMAL							
Particles >4µm	ASTM D7647 >100	00 <b>4 37869</b>	<b>△</b> 37972							
Particles >6µm	ASTM D7647 >250	0 <b>A 7827</b>	<b>9800</b>							
Oil Cleanliness	ISO 4406 (c) >20/1	8/15 🛕 22/20/13	<u>^</u> 22/20/14							

Customer Id: USCMCD Sample No.: USP244458 Lab Number: 05978308 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**

There are no recommended actions for this sample.

## HISTORICAL DIAGNOSIS

01 May 2023 Diag: Doug Bogart

ISO



Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) 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**

Area [3160795] SC-04 (S/N V2446)

Refrigeration Compressor

**FES 4 (70 GAL)** 

Sample Rating Trend



## DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

## Contamination

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

## **Fluid Condition**

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

			May2023	Aug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP244458	USP244457	
Sample Date		Client Info		15 Aug 2023	01 May 2023	
Machine Age	hrs	Client Info		8383	7259	
Oil Age	hrs	Client Info		8383	7259	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	5	8	
Chromium	ppm	ASTM D5185m	>2	0	0	
Nickel	ppm	ASTM D5185m		0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>3	0	0	
Lead	ppm	ASTM D5185m	>2	0	0	
Copper	ppm	ASTM D5185m	>8	<1	<1	
Tin	ppm	ASTM D5185m	>4	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		1	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		0	<1	
Calcium	ppm	ASTM D5185m		<1	0	
Phosphorus	ppm	ASTM D5185m		0	<1	
Zinc	ppm	ASTM D5185m		0	<1	
Sulfur	ppm	ASTM D5185m		0	0	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	
Sodium	ppm	ASTM D5185m		<1	<1	
Potassium	ppm	ASTM D5185m	>20	0	0	
Water	%	ASTM D6304	>0.01	0.003	0.001	
ppm Water	ppm	ASTM D6304	>100	29.1	12.0	
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>▲</b> 37869	▲ 37972	
Particles >6µm		ASTM D7647	>2500	<b>^</b> 7827	<b>△</b> 9800	
Particles >14µm		ASTM D7647	>320	60	131	
Particles >21µm		ASTM D7647	>80	9	12	
Particles >38µm		ASTM D7647	>20	1	0	
Particles >71μm		ASTM D7647	>4	0	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>22/20/13</b>	<u>22/20/14</u>	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974		0.014	0.014	



## **OIL ANALYSIS REPORT**







Certificate L2367

Sample No. Lab Number **Unique Number** 

Test Package

: 05978308

: USP244458 : 10695603 : IND 2

Received Diagnosed

: 13 Oct 2023 : 17 Oct 2023 Diagnostician : Doug Bogart

1275 MEDLINE PLACE MCDONOUGH, GA US 30253

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: