

# **PROBLEM SUMMARY**

Sample Rating Trend

1az/019 Jan2020 Aug2020 Jan2021 Jan2021 Maz2022 Nov2027 Jun2023 Oct202

VISCOSITY

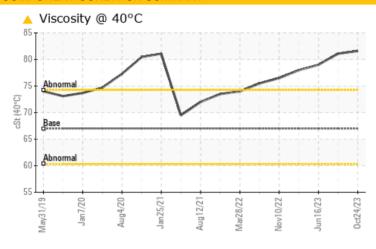
C-3 N (S/N 10241K65420993)

Component

Refrigeration Compressor

**USPI 1009-68 SC (150 GAL)** 

# COMPONENT CONDITION SUMMARY



# RECOMMENDATION

The oil is near the end of it's useful service life and we recommend schedule an oil change. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL	ABNORMAL	NORMAL			
Visc @ 40°C	cSt	ASTM D445	67	<u>▲</u> 81.6	▲ 81.1	79.0			

Customer Id: AMELONMN Sample No.: USP0003031 Lab Number: 05996744 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
Service/change Fluid			?	The oil is near the end of it's useful service life, recommend schedule an oil change.

# HISTORICAL DIAGNOSIS

# 06 Oct 2023 Diag: Doug Bogart

#### VISCOSITY



The oil is near the end of it's useful service life and we recommend schedule an oil change. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The oil viscosity is higher than normal. Confirmed. The AN level is acceptable for this fluid.



# 16 Jun 2023 Diag: Doug Bogart

#### NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. An increase in the viscosity is noted. Confirmed. The AN level is acceptable for this fluid.

# view report

### 28 Feb 2023 Diag: Doug Bogart

#### NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

# Sample Rating Trend

# **VISCOSITY**

# C-3 N (S/N 10241K65420993)

**Refrigeration Compressor** 

**USPI 1009-68 SC (150 GAL)** 





# **DIAGNOSIS**

# Recommendation

The oil is near the end of it's useful service life and we recommend schedule an oil change. Resample at the next service interval to monitor.

All component wear rates are normal.

# Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

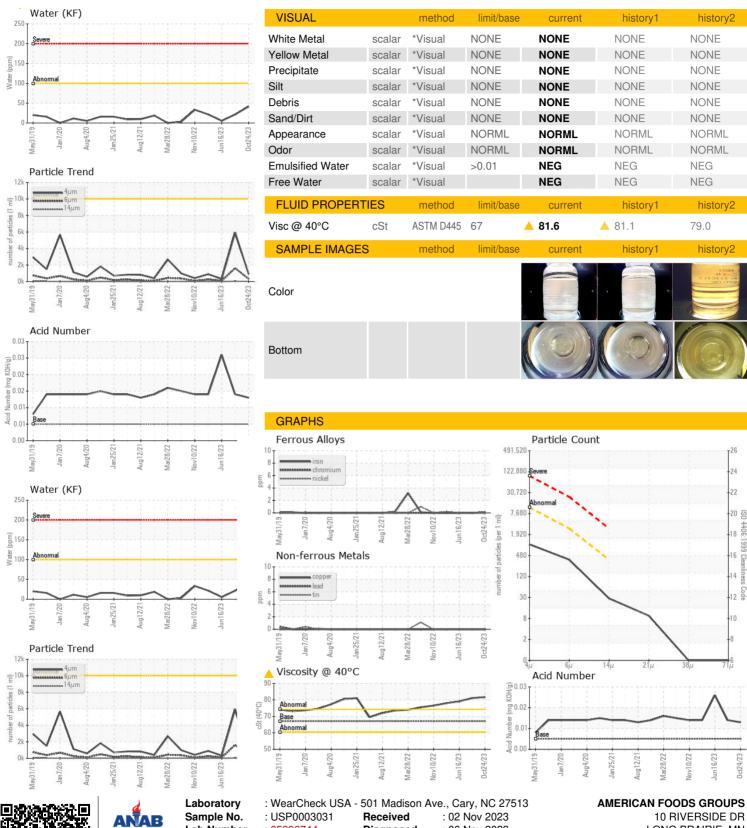
# Fluid Condition

The oil viscosity is higher than normal. Confirmed. The AN level is acceptable for this fluid.

		1ay2019 Jan2	020 Aug2020 Jan2021 .	Aug 2021 Mar 2022 Nov 2022 Juni	023 Oct202:	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0003031	USP0001287	USP244525
Sample Date		Client Info		24 Oct 2023	06 Oct 2023	16 Jun 2023
Machine Age	hrs	Client Info		41814	41427	38701
Oil Age	hrs	Client Info		0	18255	15524
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	0
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	<1	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	0	0
Tin	ppm	ASTM D5185m	>4	0	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	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	8	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	0
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water	%	ASTM D6304	>0.01	0.004	0.002	0.001
ppm Water	ppm	ASTM D6304	>100	41.4	21.7	5.4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	883	5923	311
Particles >6µm		ASTM D7647	>2500	320	1619	87
Particles >14μm		ASTM D7647	>320	25	37	7
Particles >21µm		ASTM D7647	>80	8	5	2
Particles >38μm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/15/12	20/18/12	15/14/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.013	0.014	0.026



# **OIL ANALYSIS REPORT**







Certificate L2367

Lab Number

**Unique Number** 

: 05996744 : 10725104 Test Package : IND 2

Diagnosed

Diagnostician

: 06 Nov 2023 : Doug Bogart LONG PRAIRIE, MN US 56347

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: