

# **PROBLEM SUMMARY**

Sample Rating Trend

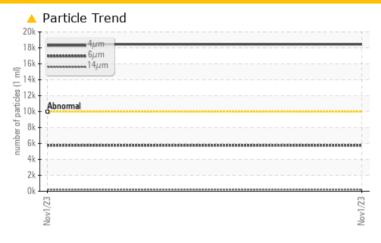


Machine Id HS-7 Component

**Refrigeration Compressor** 

**REFRIG COMP OIL ISO 68 (--- GAL)** 

### **COMPONENT CONDITION SUMMARY**



#### RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL						
Particles >4µm	ASTM D7647	>10000	<u> </u>						
Particles >6µm	ASTM D7647	>2500	<b>▲</b> 5762						
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>1</b> 21/20/15						

Customer Id: SMISTJ Sample No.: USP0003033 Lab Number: 05996742 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

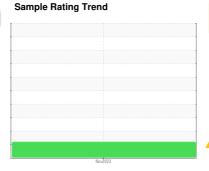
There are no recommended actions for this sample.

### HISTORICAL DIAGNOSIS



## **OIL ANALYSIS REPORT**

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DIAGNOSIS

Machine Id **HS-7** Component

#### Recommendation

Resample at the next service interval to monitor.

**REFRIG COMP OIL ISO 68 (--- GAL)** 

#### Moor

All component wear rates are normal.

**Refrigeration Compressor** 

#### Contamination

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

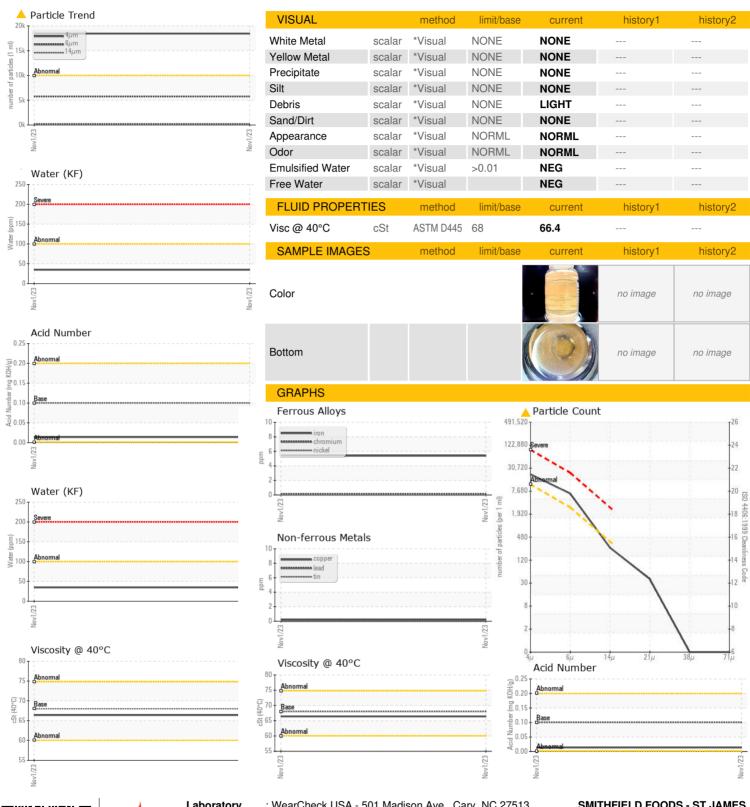
### **Fluid Condition**

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

				Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0003033		
Sample Date		Client Info		01 Nov 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	5		
Chromium	ppm	ASTM D5185m	>2	<1		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>3	<1		
Lead	ppm	ASTM D5185m	>2	0		
Copper	ppm	ASTM D5185m	>8	<1		
Tin	ppm	ASTM D5185m	>4	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0		
Barium	ppm	ASTM D5185m	5	8		
Molybdenum	ppm	ASTM D5185m	5	0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	5	0		
Calcium	ppm	ASTM D5185m	12	2		
Phosphorus	ppm	ASTM D5185m	12	0		
Zinc	ppm	ASTM D5185m	12	0		
Sulfur	ppm	ASTM D5185m	1000	13		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	1		
Water	%	ASTM D6304	>0.01	0.003		
ppm Water	ppm	ASTM D6304	>100	34.8		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<u> </u>		
Particles >6µm		ASTM D7647	>2500	<b>△</b> 5762		
Particles >14μm		ASTM D7647	>320	223		
Particles >21µm		ASTM D7647	>80	34		
Particles >38μm		ASTM D7647	>20	0		
Particles >71µm		ASTM D7647	>4	0		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>^</u> 21/20/15		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.10	0.014		



# **OIL ANALYSIS REPORT**





Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: USP0003033 : 05996742

: 10725102 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Nov 2023 Diagnosed : 06 Nov 2023

: Doug Bogart Diagnostician

**SMITHFIELD FOODS - ST JAMES** 

ST JAMES, MN US Contact:

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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