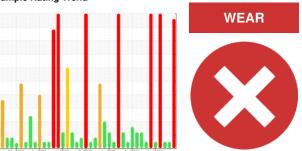


### **PROBLEM SUMMARY**

Sample Rating Trend



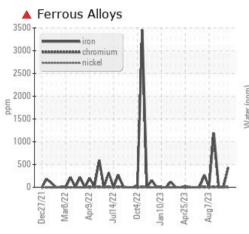
Machine Id

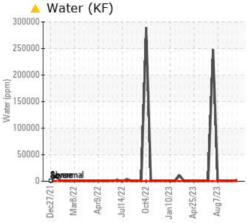
## **RECYCLED NH3 OIL (S/N MOX1000161U19205)**

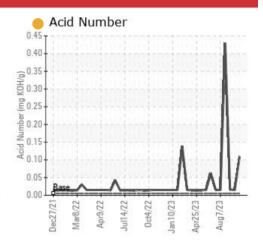
**Refrigeration Compressor** 

USPI ALT-68 SC (--- GAL)

### COMPONENT CONDITION SUMMARY







### **RECOMMENDATION**

This is a baseline read-out on the submitted sample. We were unable to perform a particle count due to a high concentration of particles present in this sample. BEFORE

PROBLEMATIC TEST RESULTS						
Sample Status				SEVERE	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>8	<b>435</b>	0	0
Water	%	ASTM D6304	>0.01	<b>△</b> 0.197	0.003	0.003
ppm Water	ppm	ASTM D6304	>100	<b>1970</b>	38.8	30.7
Silt	scalar	*Visual	NONE	HEAVY	NONE	NONE
Emulsified Water	scalar	*Visual	>0.01	<b>0.2%</b>	NEG	NEG

**Customer Id: CARCOLNE** Sample No.: USP0007838 Lab Number: 06145900 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
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

### HISTORICAL DIAGNOSIS

### 07 Nov 2023 Diag: Doug Bogart

This is a baseline read-out on the submitted sample. 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.



### 21 Sep 2023 Diag: Doug Bogart

This is a baseline read-out on the submitted sample. BARREL 1 AFTER FILTRATION 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.



## 20 Sep 2023 Diag: Doug Bogart

This is a baseline read-out on the submitted sample. We were unable to perform a particle count due to a high concentration of particles present in this sample. BARREL 1 BEFORE FILTRATIONThe iron level is severe. Appearance is unacceptable. There is a light concentration of water present in the oil. There is a moderate amount of visible silt present in the sample. The AN level is above the recommended limit.



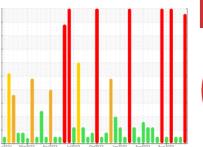


**WEAR** 



### **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id

# **RECYCLED NH3 OIL (S/N MOX1000161U19205)**

Refrigeration Compressor

Fluid

USPI ALT-68 SC (--- GAL)

### DIAGNOSIS

#### Recommendation

This is a baseline read-out on the submitted sample. We were unable to perform a particle count due to a high concentration of particles present in this sample. BEFORE

### Wear

The iron level is severe.

#### Contamination

There is a high amount of visible silt present in the sample. There is a light concentration of water present in the oil.

### Fluid Condition

An increase in the AN level is noted. Confirmed.

		c2021 Mar20	22 Apr2022 Jul2022	Oct2022 Jan2023 Apr2023 A	Aug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0007838	USP0003280	USP243492
Sample Date		Client Info		09 Apr 2024	07 Nov 2023	21 Sep 2023
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				SEVERE	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<b>435</b>	0	0
Chromium	ppm	ASTM D5185m	>2	0	<1	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	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	0
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		1	0	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	24	0	1
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	5	<1	4
Sodium	ppm	ASTM D5185m		0	0	2
Potassium	ppm	ASTM D5185m	>20	0	1	2
Water	%	ASTM D6304	>0.01	<u> </u>	0.003	0.003
ppm Water	ppm	ASTM D6304	>100	<b>1970</b>	38.8	30.7
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000		663	1916
Particles >6µm		ASTM D7647	>2500		185	375
Particles >14µm		ASTM D7647	>320		13	20
Particles >21µm		ASTM D7647	>80		4	5
Particles >38µm		ASTM D7647	>20		1	0
Particles >71µm		ASTM D7647	>4		0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15		17/15/11	18/16/11
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	I/OII/-	ACTM DOZ4	0.005	0.100	0.015	0.016

Acid Number (AN)

mg KOH/g ASTM D974 0.005

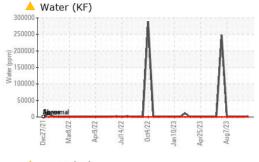
0.109

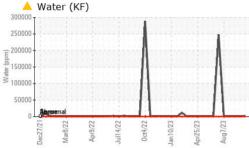
0.015

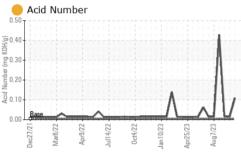
0.016

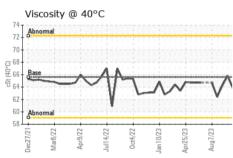


### **OIL ANALYSIS REPORT**









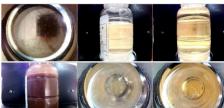
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	▲ HEAVY	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.01	<b>0.2%</b>	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
ELLIIN DDODEDT	TEC	mothod	limit/bass	ourrent	historyt	hioton/2

FLUID PROPER	THES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 40°C	cSt	ASTM D445	65.6	63.8	65.8	64.3

AMPLE IMAGES	method

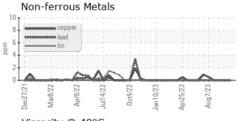
Color

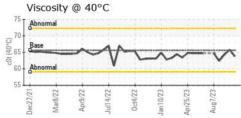
**Bottom** 

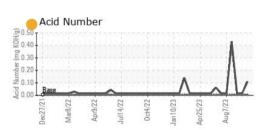


### **GRAPHS**

Ferrous Alloys 틆 2000











Laboratory Sample No.

: USP0007838 Lab Number : 06145900 Unique Number : 10975978

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Apr 2024 **Tested** Diagnosed

: 16 Apr 2024

: 16 Apr 2024 - Doug Bogart

COLUMBUS, NE US 68601 Contact:

Certificate 12367

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)

Contact/Location: - CARCOLNE

**CARGILL FOODS-COLUMBUS** 

T:

F: