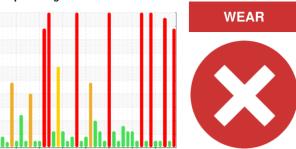


PROBLEM SUMMARY

Sample Rating Trend



Machine Id

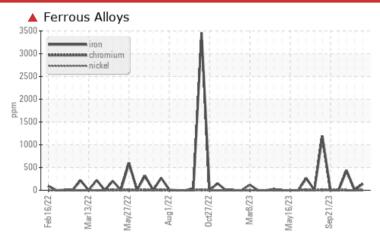
RECYCLED NH3 OIL (S/N MOX1000161U19205)

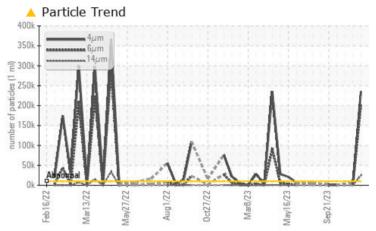
Refrigeration Compressor

Fluid

USPI ALT-68 SC (--- GAL)







RECOMMENDATION

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

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	NORMAL	SEVERE		
Iron	ppm	ASTM D5185m	>8	139	5	4 35		
Particles >4µm		ASTM D7647	>10000	235739	5325			
Particles >6µm		ASTM D7647	>2500	203318	540			
Particles >14μm		ASTM D7647	>320	24429	19			
Particles >21µm		ASTM D7647	>80	<u>^</u> 90	5			
Oil Cleanliness		ISO 4406 (c)	>20/18/15	25/25/22	20/16/11			

Customer Id: CARCOLNE Sample No.: USP0012506 Lab Number: 06202814 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

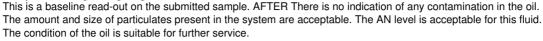
RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

10 Apr 2024 Diag: Doug Bogart

NORMAL





WEAR



09 Apr 2024 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. BEFOREThe iron level is severe. There is a high amount of visible silt present in the sample. There is a light concentration of water present in the oil. An increase in the AN level is noted. Confirmed.



NORMAL



07 Nov 2023 Diag: Doug Bogart

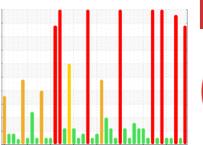
This is a baseline read-out on the submitted sample. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id

RECYCLED NH3 OIL (S/N MOX1000161U19205)

Refrigeration Compressor

USPI ALT-68 SC (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

The iron level is severe.

Contamination

There is a high amount of particulates present in the oil. There is a trace of moisture present in the

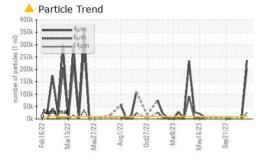
Fluid Condition

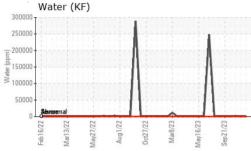
The AN level is acceptable for this fluid.

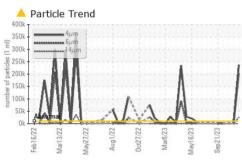
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012506	USP0007837	USP0007838
Sample Date		Client Info		05 Jun 2024	10 Apr 2024	09 Apr 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	139	5	435
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	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		<1	0	0
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		0	0	1
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		<1	0	0
Sulfur	ppm	ASTM D5185m	50	0	7	24
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	3	5
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.01	0.012	0.003	△ 0.197
ppm Water	ppm	ASTM D6304	>100	124	37	△ 1970
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	235739	5325	
Particles >6µm		ASTM D7647	>2500	<u>^</u> 203318	540	
Particles >14μm		ASTM D7647	>320	<u>24429</u>	19	
Particles >21µm		ASTM D7647	>80	<u>^</u> 90	5	
Particles >38μm		ASTM D7647	>20	0	0	
Particles >71μm		ASTM D7647	>4	0	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	25/25/22	20/16/11	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

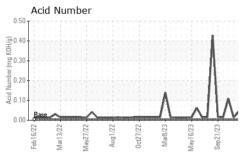


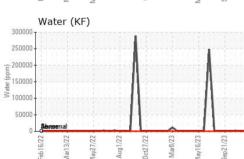
OIL ANALYSIS REPORT

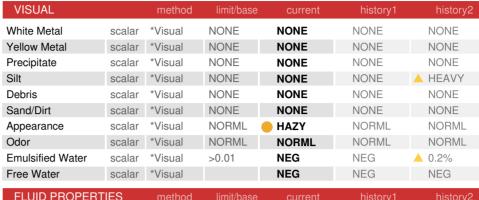












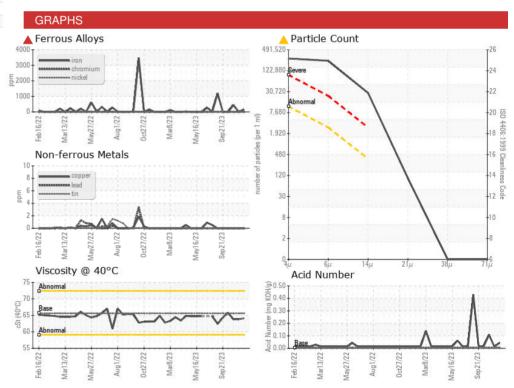
FLUID PROPERTIES			method	limit/base	current	history1	history2	
Visc @ 4	0°C	cSt	ASTM D445	65.6	64.1	63.8	63.8	

SAMPLE IMAGES

Color

Bottom









Certificate 12367

Laboratory Sample No. Lab Number

Test Package : IND 2

: USP0012506

: 06202814 Unique Number : 11070275

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 07 Jun 2024

Tested : 11 Jun 2024 Diagnosed

: 11 Jun 2024 - Doug Bogart

CARGILL FOODS-COLUMBUS

COLUMBUS, NE US 68601 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)

T:

F: