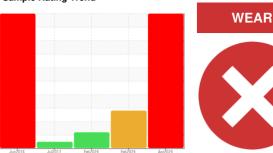


PROBLEM SUMMARY

Sample Rating Trend



Machine Id

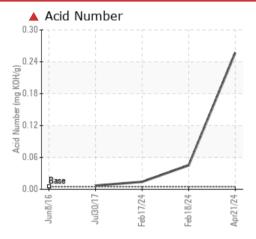
RECYCLED NH3 OIL

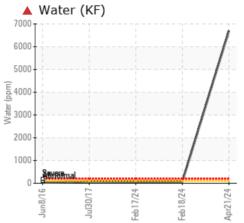
Component

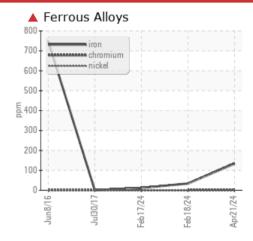
Refrigeration Compressor

USPI ALT-68 SC (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

This is a baseline read-out on the submitted sample. We recommend you service the filters on this component. We were unable to perform a particle count due to a high concentration of particles present in this sample. Barrel 1

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	ABNORMAL	ABNORMAL			
Iron	ppm	ASTM D5185m	>8	134	4 34	12			
Water	%	ASTM D6304	>0.01	▲ 0.669	0.007	0.007			
ppm Water	ppm	ASTM D6304	>100	6699	75	71			
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.257	0.045	0.014			
Silt	scalar	*Visual	NONE	▲ MODER	NONE	NONE			

Customer Id: JBSOTT Sample No.: USP0006370 Lab Number: 06156048 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED	ECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component.		
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.		

HISTORICAL DIAGNOSIS

18 Feb 2024 Diag: Doug Bogart

This is a baseline read-out on the submitted sample. BARREL 3The iron level is abnormal. There is a high amount of particulates present in the oil. The oil viscosity is lower than normal. Confirmed. The AN level is acceptable for this fluid.



17 Feb 2024 Diag: Doug Bogart

This is a baseline read-out on the submitted sample. BARREL 2. 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.





30 Jul 2017 Diag: Doug Bogart

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

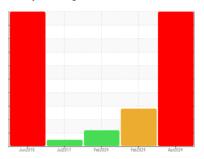






OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id

RECYCLED NH3 OIL

Refrigeration Compressor

USPI ALT-68 SC (--- GAL)

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample. We recommend you service the filters on this component. We were unable to perform a particle count due to a high concentration of particles present in this sample. Barrel 1

▲ Wear

The iron level is severe.

▲ Contamination

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

▲ Fluid Condition

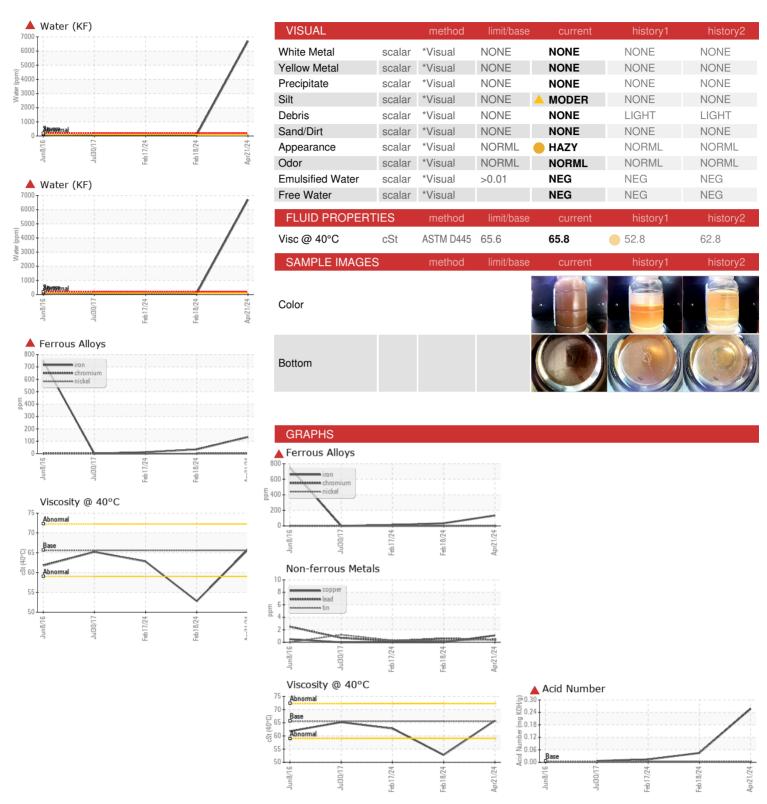
The AN level is above the recommended limit.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006370	USP0006937	USP0006936
Sample Date		Client Info		21 Apr 2024	18 Feb 2024	17 Feb 2024
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	134	▲ 34	12
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m		<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	2	<1	<1
Lead	ppm	ASTM D5185m	>2	<1	<1	<1
Copper	ppm	ASTM D5185m	>8	1	0	0
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		1	<1	0
Magnesium	ppm	ASTM D5185m		<1	1	1
Calcium	ppm	ASTM D5185m		1	1	0
Phosphorus	ppm	ASTM D5185m		2	0	0
Zinc	ppm	ASTM D5185m		7	0	0
Sulfur	ppm	ASTM D5185m	50	0	3	3
CONTAMINANTS	}	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	5	4	2
Sodium	ppm	ASTM D5185m		<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	1	2	2
Water	%	ASTM D6304	>0.01	0.669	0.007	0.007
ppm Water	ppm	ASTM D6304	>100	▲ 6699	75	71
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>10000		<u>4242591</u>	<u> </u> 72111
Particles >6µm		ASTM D7647	>2500		<u>▲</u> 112937	<u>▲</u> 11179
Particles >14µm		ASTM D7647	>320		<u></u> 556	61
Particles >21µm		ASTM D7647	>80		10	7
Particles >38µm		ASTM D7647	>20		0	0
Particles >71µm		ASTM D7647	>4		0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15		<u>△</u> 25/24/16	<u>△</u> 23/21/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

0.014



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06156048

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USP0006370 Unique Number : 10991471

Received : 22 Apr 2024 Tested : 24 Apr 2024

Diagnosed : 24 Apr 2024 - Jonathan Hester

To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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: LISA PIERCE lisa_pierce@cargill.com T: (641)683-4741

600 SOUTH IOWA AVENUE

F: (641)683-4731 Contact/Location: LISA PIERCE - JBSOTT

JBS-OTTUMWA

OTTUMWA, IA

US 52501