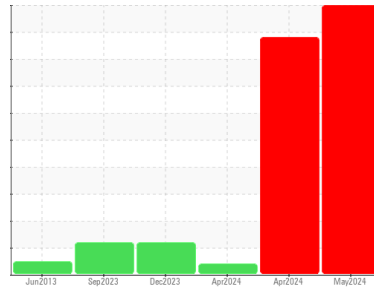




PROBLEM SUMMARY

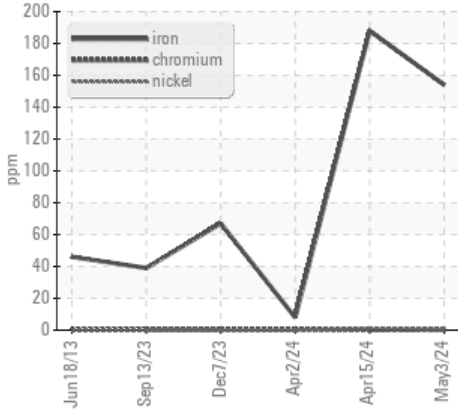
Area
[RECLAIM BARREL 2]
 Machine Id
RECYCLED NH3 (S/N 10242G3333F320)
 Component
Refrigeration Compressor
 Fluid
USPI 1009-68 SC (--- GAL)

Sample Rating Trend

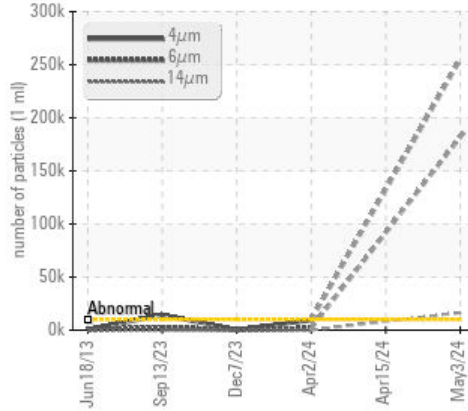


COMPONENT CONDITION SUMMARY

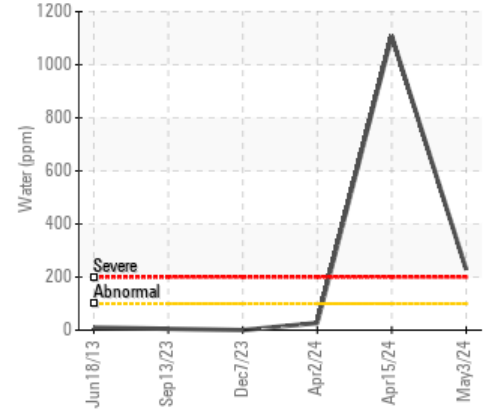
▲ Ferrous Alloys



▲ Particle Trend



▲ Water (KF)



RECOMMENDATION

This is a baseline read-out on the submitted sample. We recommend you service the filters on this component.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	ATTENTION
Iron	ppm	ASTM D5185m	>8	▲ 154	▲ 188	8
Water	%	ASTM D6304	>0.01	▲ 0.022	▲ 0.110	0.003
ppm Water	ppm	ASTM D6304	>100	▲ 229	▲ 1108	27
Particles >4µm		ASTM D7647	>10000	▲ 254869	---	9437
Particles >6µm		ASTM D7647	>2500	▲ 181763	---	1779
Particles >14µm		ASTM D7647	>320	▲ 16356	---	48
Particles >21µm		ASTM D7647	>80	▲ 2242	---	5
Particles >38µm		ASTM D7647	>20	▲ 22	---	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ 25/25/21	---	20/18/13

Customer Id: JBSOTT
 Sample No.: USP0011473
 Lab Number: 06180215
 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 ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

WEAR



15 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. The iron level is severe. Appearance is hazy. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.

[view report](#)



VISCOSITY



02 Apr 2024 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 oil viscosity is lower than normal. Confirmed. The AN level is acceptable for this fluid.

[view report](#)



WEAR



07 Dec 2023 Diag: Doug Bogart

This is a baseline read-out on the submitted sample. 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 lower than normal. Confirmed. The AN level is acceptable for this fluid.

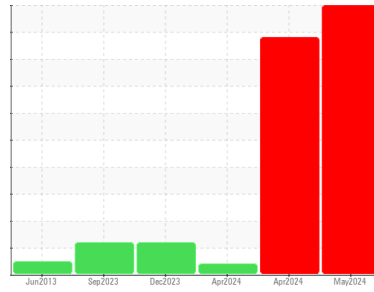
[view report](#)





OIL ANALYSIS REPORT

Sample Rating Trend



Area
[RECLAIM BARREL 2]
 Machine Id
RECYCLED NH3 (S/N 10242G3333F320)
 Component
Refrigeration Compressor
 Fluid
USPI 1009-68 SC (--- GAL)

DIAGNOSIS

▲ Recommendation

This is a baseline read-out on the submitted sample. We recommend you service the filters on this component.

▲ Wear

The iron level is severe.

▲ Contamination

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

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		USP0011473	USP0006334	USP0008102
Sample Date	Client Info		03 May 2024	15 Apr 2024	02 Apr 2024
Machine Age	mths	Client Info	0	0	0
Oil Age	mths	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			SEVERE	SEVERE	ATTENTION

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >8	▲ 154	▲ 188	8
Chromium	ppm	ASTM D5185m >2	<1	0	<1
Nickel	ppm	ASTM D5185m	<1	1	0
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m >2	<1	0	0
Aluminum	ppm	ASTM D5185m >3	0	<1	0
Lead	ppm	ASTM D5185m >2	<1	0	0
Copper	ppm	ASTM D5185m >8	<1	2	0
Tin	ppm	ASTM D5185m >4	<1	<1	0
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	<1	<1	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	<1	0	0
Manganese	ppm	ASTM D5185m	<1	0	0
Magnesium	ppm	ASTM D5185m	<1	1	<1
Calcium	ppm	ASTM D5185m	0	0	0
Phosphorus	ppm	ASTM D5185m	0	0	0
Zinc	ppm	ASTM D5185m	<1	0	0
Sulfur	ppm	ASTM D5185m 50	0	14	0

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	9	8	3
Sodium	ppm	ASTM D5185m	0	3	0
Potassium	ppm	ASTM D5185m >20	2	2	<1
Water	%	ASTM D6304 >0.01	▲ 0.022	▲ 0.110	0.003
ppm Water	ppm	ASTM D6304 >100	▲ 229	▲ 1108	27

FLUID CLEANLINESS

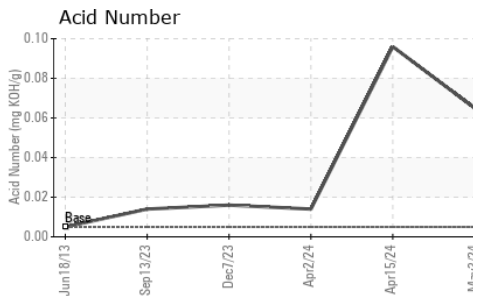
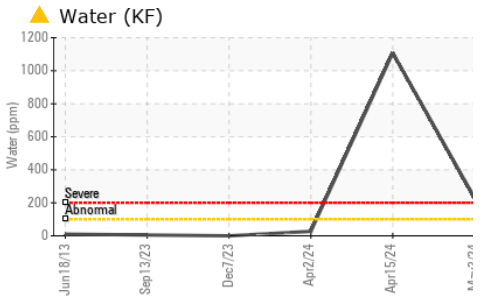
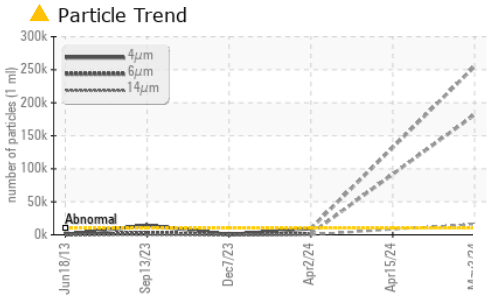
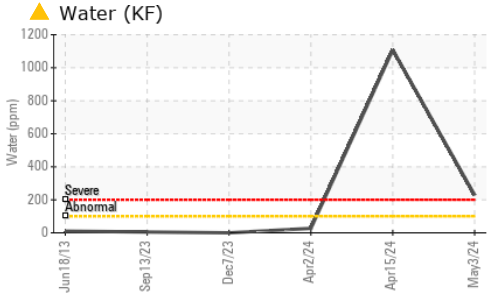
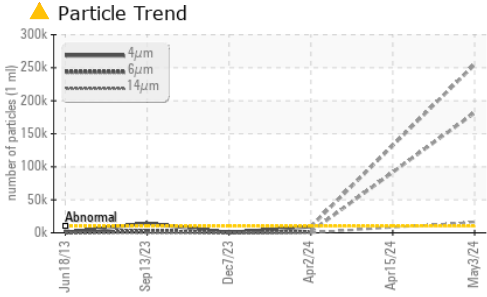
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ 254869	---	9437
Particles >6µm	ASTM D7647	>2500	▲ 181763	---	1779
Particles >14µm	ASTM D7647	>320	▲ 16356	---	48
Particles >21µm	ASTM D7647	>80	▲ 2242	---	5
Particles >38µm	ASTM D7647	>20	▲ 22	---	0
Particles >71µm	ASTM D7647	>4	0	---	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 25/25/21	---	20/18/13

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974 0.005	0.065	0.096	0.014



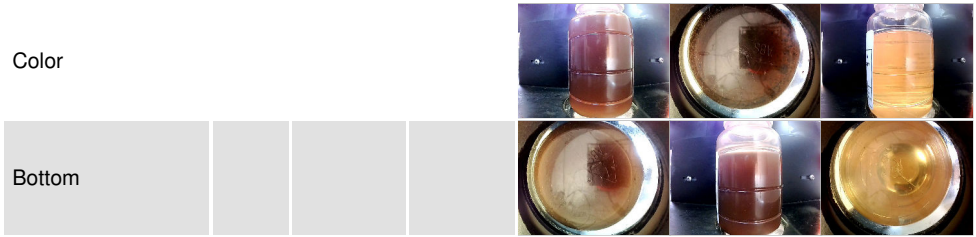
OIL ANALYSIS REPORT



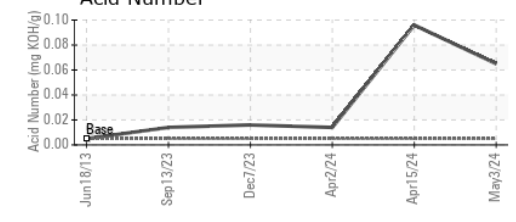
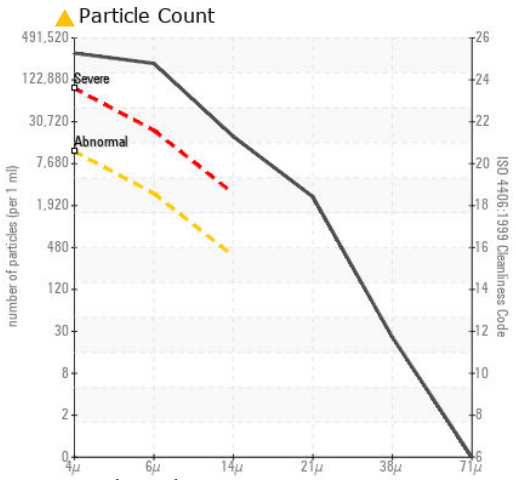
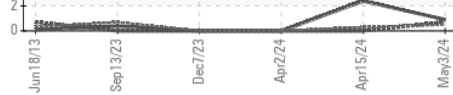
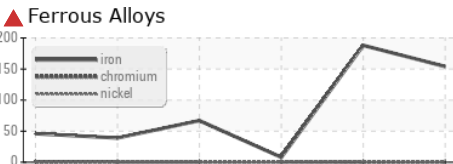
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	● HAZY	● HAZY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 67	61.2	60.1	● 53.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0011473 **Received** : 15 May 2024
Lab Number : 06180215 **Tested** : 18 May 2024
Unique Number : 11031541 **Diagnosed** : 18 May 2024 - Jonathan Hester
Test Package : IND 2

JBS-OTTUMWA
 600 SOUTH IOWA AVENUE
 OTTUMWA, IA 52501
 Contact: LISA PIERCE
 lisa_pierce@cargill.com
 T: (641)683-4741
 F: (641)683-4731

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)