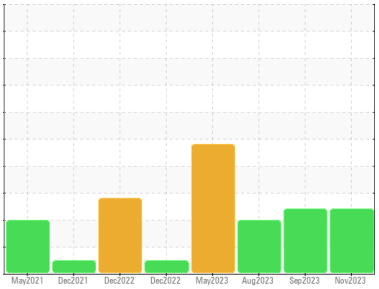
PROBLEM SUMMARY

Sample Rating Trend

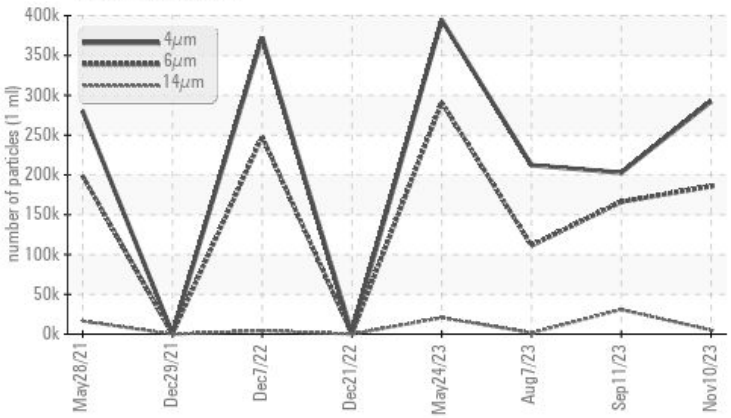


WEAR

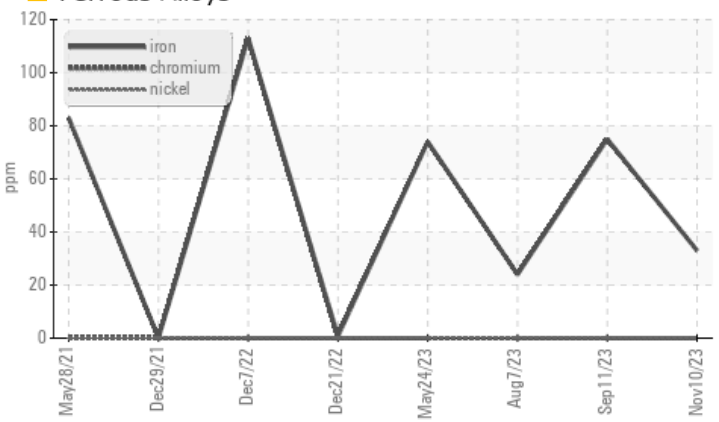
Area
[BATCH 22 BEFORE FILT]
Machine Id
RECYCLE NH3 OIL
Component
Refrigeration Compressor
Fluid
USPI 1009-68 SC (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Ferrous Alloys



RECOMMENDATION

This is a baseline read-out on the submitted sample.
BATCH 22 BEFORE FILTRATION

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>8	▲ **33**	▲ 75	▲ 24
Particles >6µm		ASTM D7647	>2500	▲ **185613**	▲ 166218	▲ 111353
Particles >14µm		ASTM D7647	>320	▲ **5090**	▲ 30784	▲ 1613
Particles >21µm		ASTM D7647	>80	▲ **147**	▲ 2723	46
Oil Cleanliness		ISO 4406 (c)	>--/18/15	▲ **25/25/20**	▲ 25/25/22	▲ 25/24/18

Customer Id: TYSLEXHID
Sample No.: USP249315
Lab Number: 06006406
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

11 Sep 2023 Diag: Doug Bogart

WEAR

This is a baseline read-out on the submitted sample. BATCH 20 BEFOREThe iron level is abnormal. There is a high amount of particulates present in the oil. Viscosity confirmed. The AN level is acceptable for this fluid.

view report

07 Aug 2023 Diag: Doug Bogart

WEAR

This is a baseline read-out on the submitted sample. BATCH 19 BEFORE FILTRATIONThe iron level is abnormal. There is a high amount of particulates present in the oil. Viscosity confirmed. The AN level is acceptable for this fluid.

view report

24 May 2023 Diag: Doug Bogart

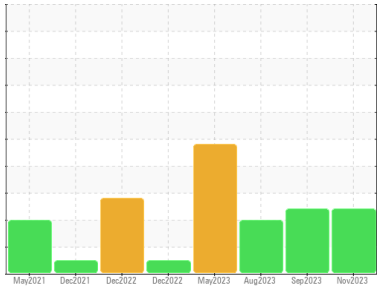
WATER

This is a baseline read-out on the submitted sample. BATCH 18 BEFORE FILTRATIONThe iron level is abnormal. There is a high amount of particulates present in the oil. There is a trace of moisture present in the oil. The AN level is acceptable for this fluid.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
[BATCH 22 BEFORE FILT]
Machine Id
RECYCLE NH3 OIL
Component
Refrigeration Compressor
Fluid
USPI 1009-68 SC (--- GAL)

DIAGNOSIS

Recommendation
This is a baseline read-out on the submitted sample. BATCH 22 BEFORE FILTRATION

Wear
The iron level is abnormal.

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

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**USP249315**	USP05949247	USP249311
Sample Date		Client Info		**10 Nov 2023**	11 Sep 2023	07 Aug 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				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	▲ **33**	▲ 75	▲ 24
Chromium	ppm	ASTM D5185m	>2	**0**	0	0
Nickel	ppm	ASTM D5185m		**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m	>2	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>3	**0**	1	<1
Lead	ppm	ASTM D5185m	>2	**0**	0	<1
Copper	ppm	ASTM D5185m	>8	**0**	<1	0
Tin	ppm	ASTM D5185m	>4	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	<1	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**	<1	0
Magnesium	ppm	ASTM D5185m		**0**	0	0
Calcium	ppm	ASTM D5185m		**0**	0	0
Phosphorus	ppm	ASTM D5185m		**<1**	0	0
Zinc	ppm	ASTM D5185m		**0**	0	0
Sulfur	ppm	ASTM D5185m	50	**0**	0	0

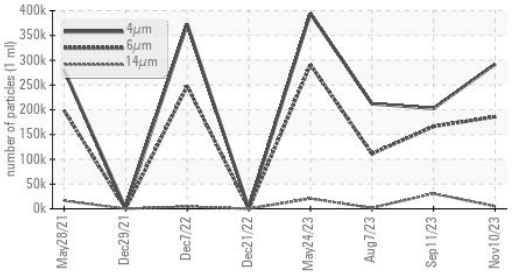
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**3**	5	4
Sodium	ppm	ASTM D5185m		**<1**	<1	0
Potassium	ppm	ASTM D5185m	>20	**0**	2	<1
Water	%	ASTM D6304	>0.01	**0.007**	0.011	0.002
ppm Water	ppm	ASTM D6304	>100	**76.9**	110.9	21.2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**292124**	202775	212113
Particles >6µm		ASTM D7647	>2500	▲ **185613**	▲ 166218	▲ 111353
Particles >14µm		ASTM D7647	>320	▲ **5090**	▲ 30784	▲ 1613
Particles >21µm		ASTM D7647	>80	▲ **147**	▲ 2723	46
Particles >38µm		ASTM D7647	>20	**0**	0	1
Particles >71µm		ASTM D7647	>4	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>--/18/15	▲ **25/25/20**	▲ 25/25/22	▲ 25/24/18

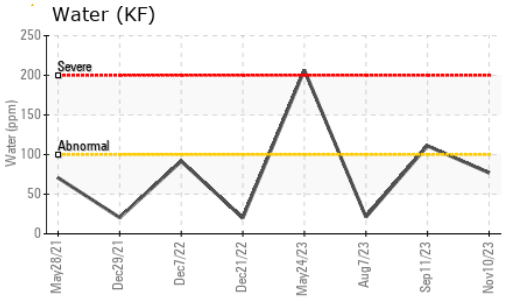
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	**0.027**	0.024	0.014

OIL ANALYSIS REPORT

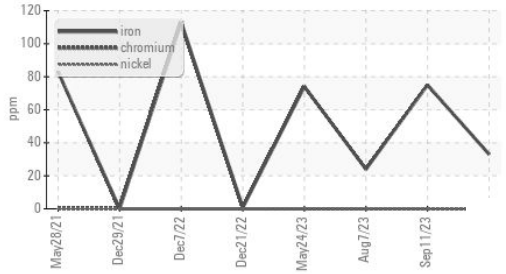
Particle Trend



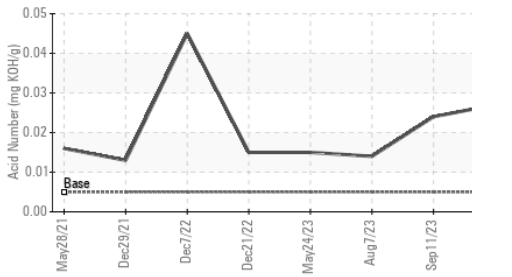
Water (KF)



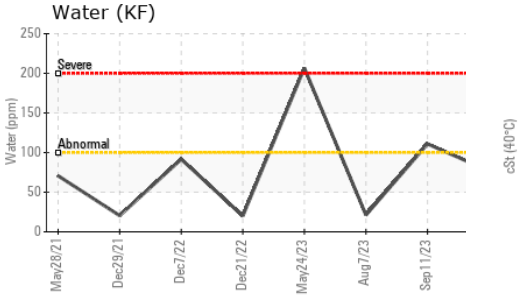
Ferrous Alloys



Acid Number



Water (KF)



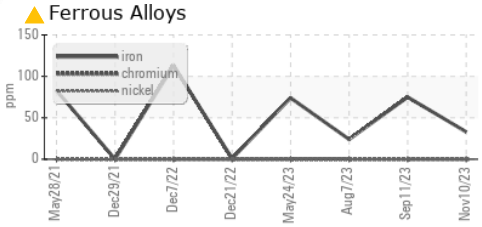
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67	**62.4**	60.2	59.2

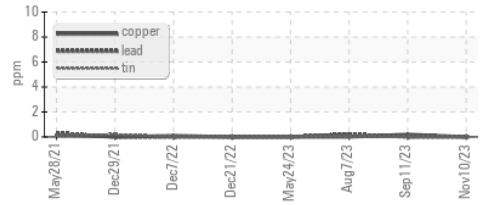
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

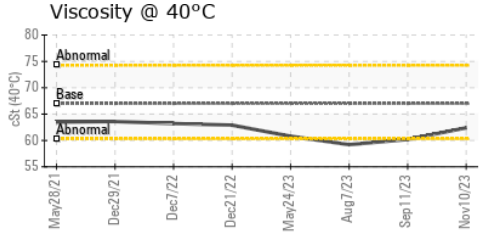
Ferrous Alloys



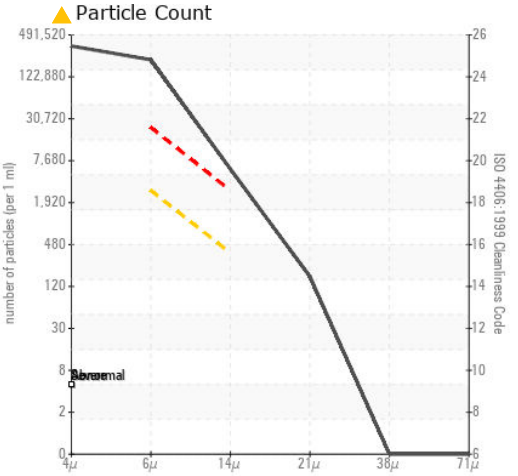
Non-ferrous Metals



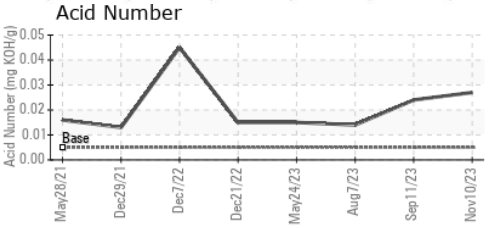
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP249315
Lab Number : 06006406
Unique Number : 10740168
Test Package : IND 2

Received : 13 Nov 2023
Diagnosed : 14 Nov 2023
Diagnostician : Doug Bogart

TYSON FOODS INC - LEXINGTON HIDES
1500 PLUM CREEK PKWY
LEXINGTON, NE
US 68850
Contact: JOEL RODRIGUEZ

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: