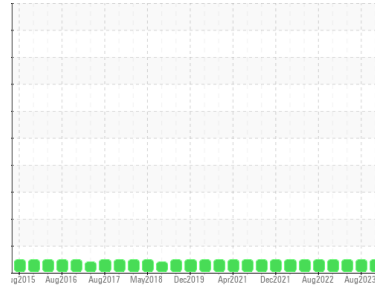




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
NORTH
Machine Id
NORTH LS-3 (S/N AB10762)
Component
Refrigeration Compressor
Fluid
REFRIG COMP OIL ISO 68 (257 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	USP0003466	USP248338	USP244228
Sample Date	Client Info	13 Nov 2023	07 Aug 2023	09 May 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		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>8	0	<1	<1
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	0
Aluminum ppm ASTM D5185m	>3	0	<1	0
Lead ppm ASTM D5185m	>2	0	0	0
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	5	0	0	0
Barium ppm ASTM D5185m	5	0	0	0
Molybdenum ppm ASTM D5185m	5	0	0	0
Manganese ppm ASTM D5185m		0	<1	<1
Magnesium ppm ASTM D5185m	5	0	1	<1
Calcium ppm ASTM D5185m	12	0	0	0
Phosphorus ppm ASTM D5185m	12	<1	1	0
Zinc ppm ASTM D5185m	12	0	0	0
Sulfur ppm ASTM D5185m	1000	0	0	3

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	0	<1	0
Sodium ppm ASTM D5185m		<1	<1	<1
Potassium ppm ASTM D5185m	>20	0	0	2
Water % ASTM D6304	>0.01	0.00	0.002	0.003
ppm Water ppm ASTM D6304	>100	0.00	21.4	34.1

FLUID CLEANLINESS

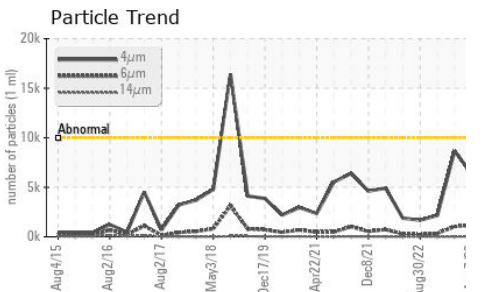
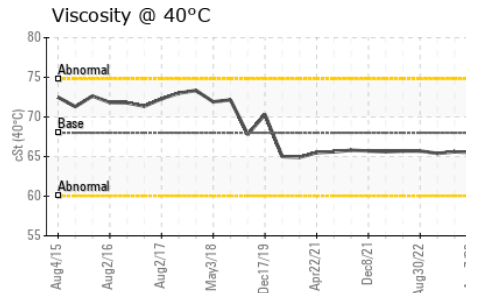
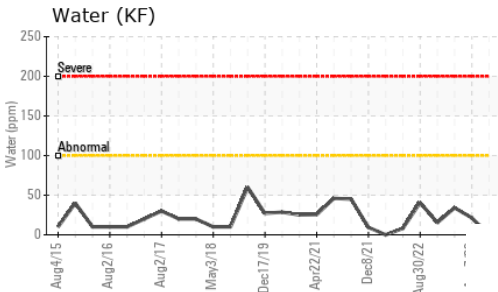
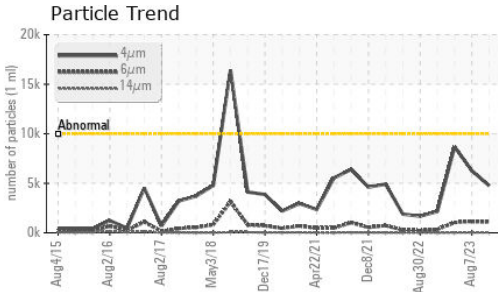
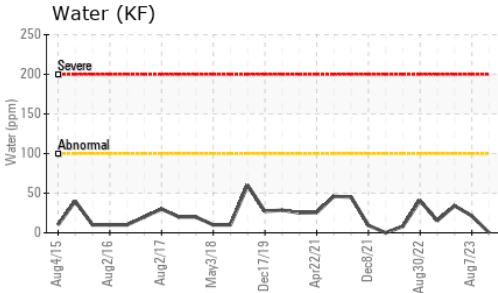
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>10000	4765	6279	8680
Particles >6µm ASTM D7647	>2500	1102	1141	1039
Particles >14µm ASTM D7647	>320	38	17	18
Particles >21µm ASTM D7647	>80	9	2	4
Particles >38µm ASTM D7647	>20	1	0	1
Particles >71µm ASTM D7647	>4	0	0	0
Oil Cleanliness ISO 4406 (c)	>20/18/15	19/17/12	20/17/11	20/17/11

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D974	0.10	0.013	0.015	0.014



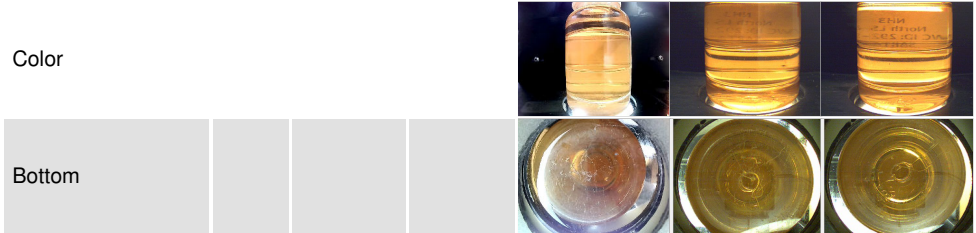
OIL ANALYSIS REPORT



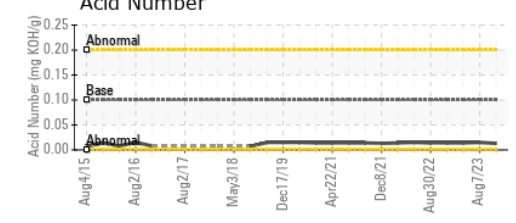
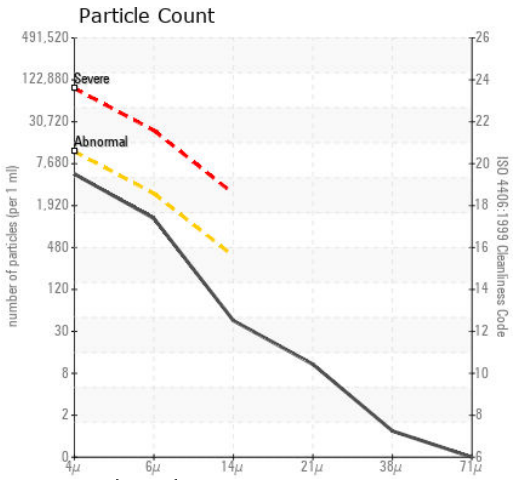
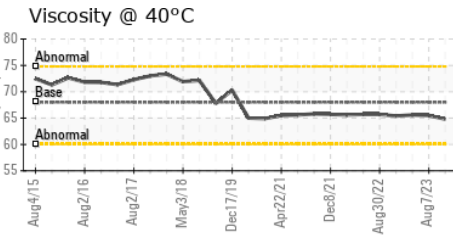
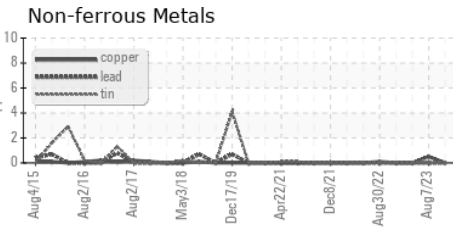
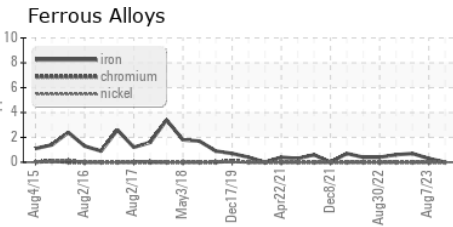
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	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 68	64.8	65.5	65.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0003466 **Received** : 13 Nov 2023
Lab Number : 06006393 **Diagnosed** : 14 Nov 2023
Unique Number : 10740155 **Diagnostician** : Doug Bogart
Test Package : IND 2

TYSON FOODS - TARBORO
 110 SARA LEE RD
 TARBORO, NC
 US 27886
 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)

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