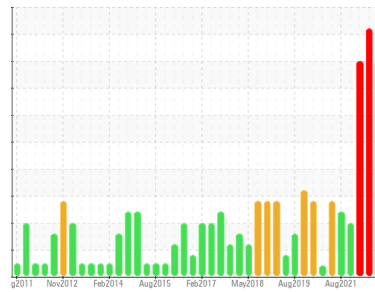


PROBLEM SUMMARY

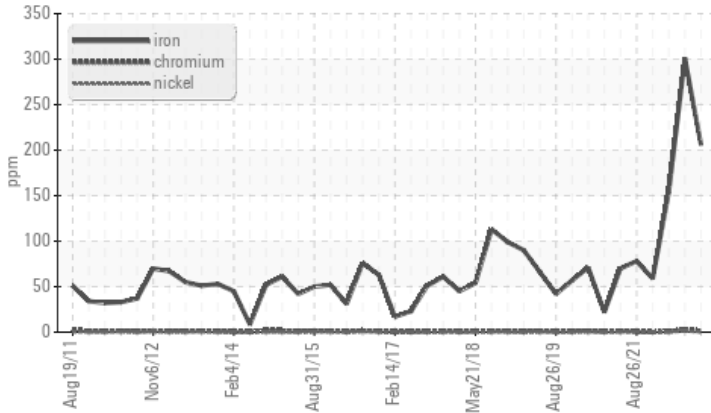
Machine Id
1231 LOCO
Component
Air Compressor
Fluid
{not provided} (2 GAL)

Sample Rating Trend

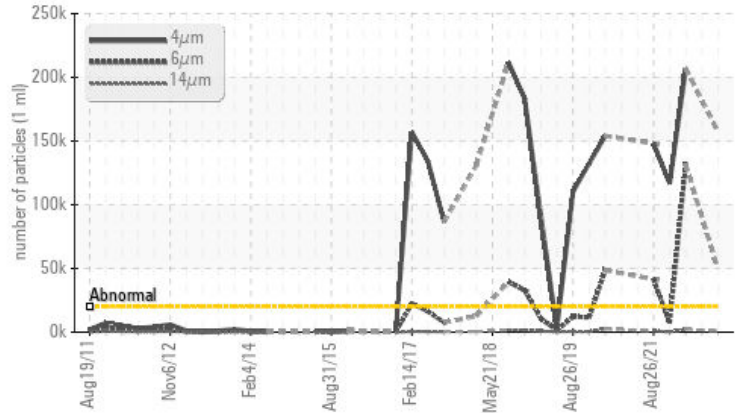


COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



▲ Particle Trend



RECOMMENDATION

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	SEVERE	SEVERE
Iron	ppm	ASTM D5185m >50	▲ 206	▲ 301	▲ 154
Particles >4µm		ASTM D7647 >20000	▲ 157362	---	▲ 206710
Particles >6µm		ASTM D7647 >2500	▲ 49518	---	▲ 131388
Particles >14µm		ASTM D7647 >320	▲ 742	---	▲ 2208
Particles >21µm		ASTM D7647 >80	▲ 132	---	▲ 176
Oil Cleanliness		ISO 4406 (c) >21/18/15	▲ 24/23/17	---	▲ 25/24/18

Customer Id: NUCCOFST
Sample No.: ST46303
Lab Number: 06200742
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldrige +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Contact Required	---	---	?	Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

HISTORICAL DIAGNOSIS

WEAR



28 Feb 2024 Diag: Don Baldrige

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue. The iron level is severe. There is a high concentration of water present in the oil. The AN level is acceptable for this fluid.

view report



WEAR



20 Aug 2023 Diag: Jonathan Hester

We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue. The iron level is severe. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid.

view report



WEAR

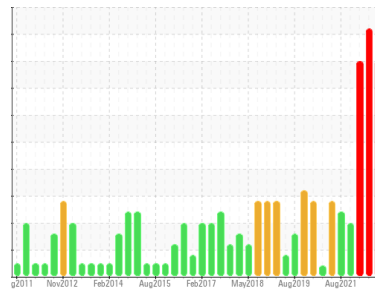


12 Nov 2022 Diag: Jonathan Hester

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue. The iron level is abnormal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid.

view report





Machine Id
1231 LOCO
 Component
Air Compressor
 Fluid
{not provided} (2 GAL)

DIAGNOSIS

- Recommendation**
 We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.
- Wear**
 The iron level is severe.
- 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			ST46303	ST43823	ST40604
Sample Date	Client Info			04 Jun 2024	28 Feb 2024	20 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				SEVERE	SEVERE	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	▲ 206	▲ 301	▲ 154
Chromium	ppm	ASTM D5185m	>4	2	2	1
Nickel	ppm	ASTM D5185m	>4	<1	1	<1
Titanium	ppm	ASTM D5185m		1	2	<1
Silver	ppm	ASTM D5185m		0	1	0
Aluminum	ppm	ASTM D5185m	>10	5	8	3
Lead	ppm	ASTM D5185m	>20	17	19	16
Copper	ppm	ASTM D5185m	>40	35	38	24
Tin	ppm	ASTM D5185m	>5	5	7	3
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	17	<1

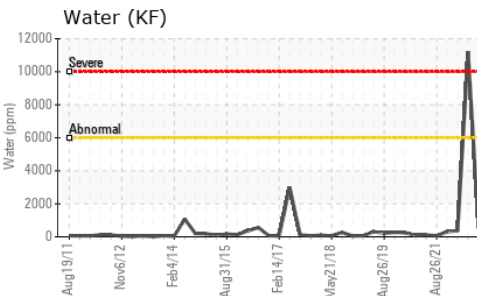
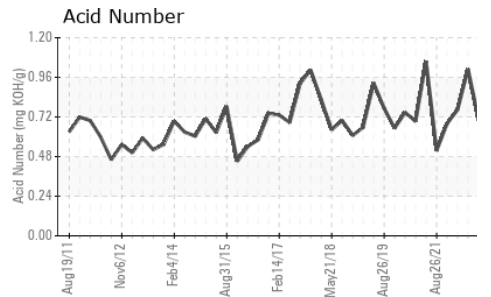
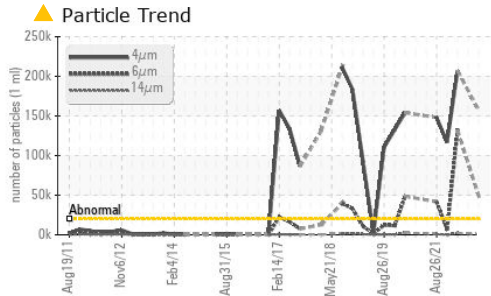
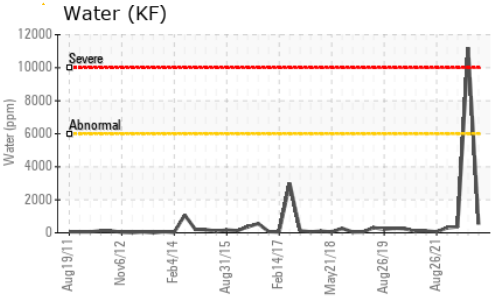
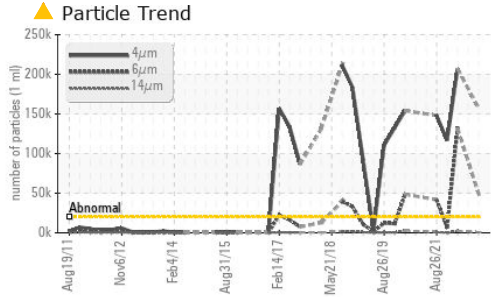
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		27	24	26
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		18	22	20
Manganese	ppm	ASTM D5185m		4	6	3
Magnesium	ppm	ASTM D5185m		325	316	373
Calcium	ppm	ASTM D5185m		533	695	434
Phosphorus	ppm	ASTM D5185m		493	425	478
Zinc	ppm	ASTM D5185m		570	476	570
Sulfur	ppm	ASTM D5185m		1959	1705	1941

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14	19	10
Sodium	ppm	ASTM D5185m		17	16	9
Potassium	ppm	ASTM D5185m	>20	6	6	2
Water	%	ASTM D6304	>0.6	0.052	▲ 1.12	0.036
ppm Water	ppm	ASTM D6304	>6000	525	▲ 11200	365.2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ 157362	---	▲ 206710
Particles >6µm		ASTM D7647	>2500	▲ 49518	---	▲ 131388
Particles >14µm		ASTM D7647	>320	▲ 742	---	▲ 2208
Particles >21µm		ASTM D7647	>80	▲ 132	---	▲ 176
Particles >38µm		ASTM D7647	>20	4	---	2
Particles >71µm		ASTM D7647	>4	1	---	0
Oil Cleanliness		ISO 4406 (c)	>21/18/15	▲ 24/23/17	---	▲ 25/24/18

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.70	1.01	0.764

OIL ANALYSIS REPORT



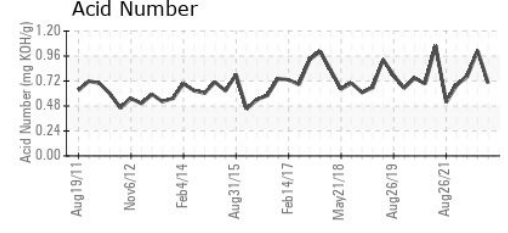
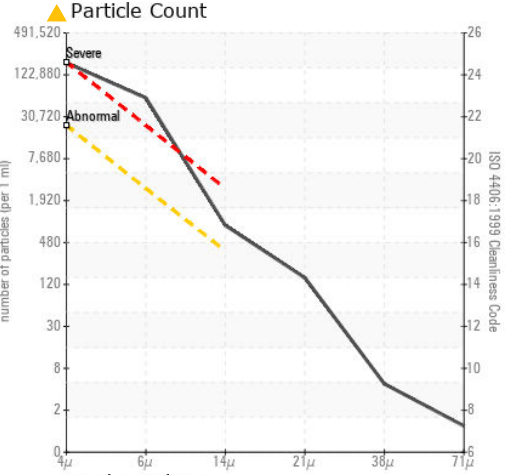
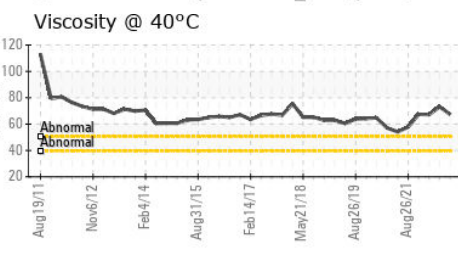
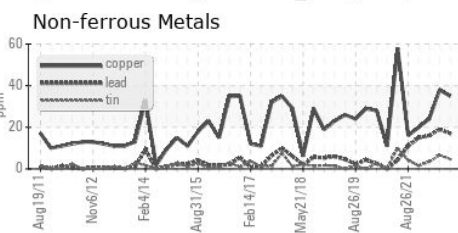
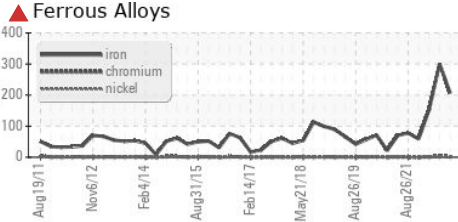
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	LIGHT	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.6	NEG	▲ 0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67.3	73.1	67.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ST46303
Lab Number : 06200742
Unique Number : 11062865
Test Package : IND 2 (Additional Tests: KF, PrtCount)
Received : 05 Jun 2024
Tested : 06 Jun 2024
Diagnosed : 07 Jun 2024 - Don Baldrige

NUCOR STEEL-HERTFORD
 PO BOX 279
 WINTON, NC
 US 27986
 Contact: JOHN REUTER
 jreuter@hpsystemsinc.com

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)