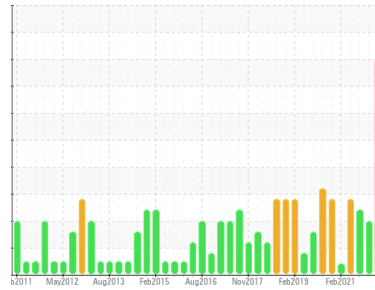


PROBLEM SUMMARY

Sample Rating Trend



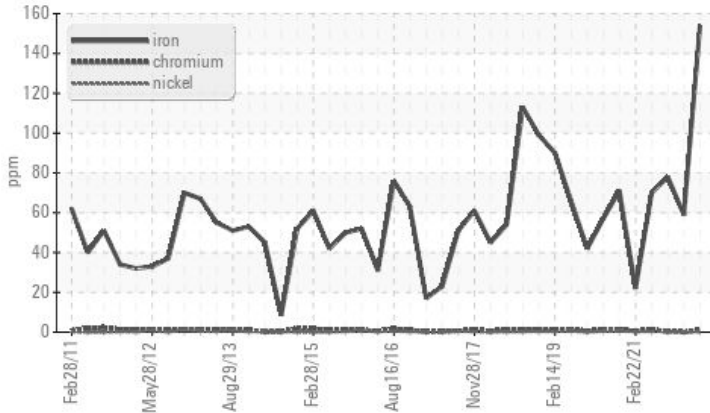
WEAR



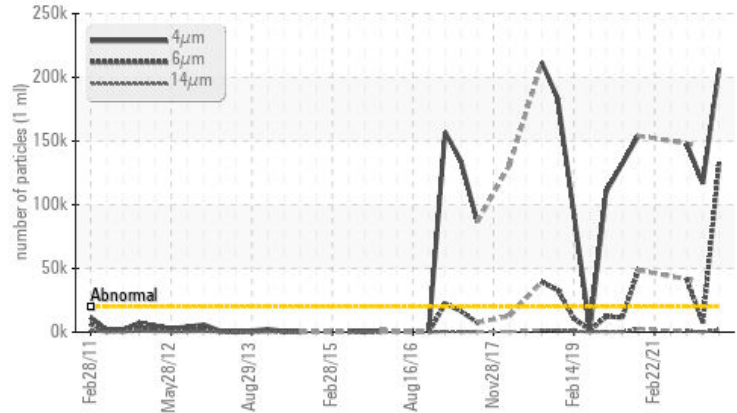
Machine Id
1231 LOCO
Component
Air Compressor
Fluid
NOT GIVEN (2 GAL)

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	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m >50	154	59	78
Particles >4µm		ASTM D7647 >20000	206710	116658	148030
Particles >6µm		ASTM D7647 >2500	131388	7219	41573
Particles >14µm		ASTM D7647 >320	2208	176	894
Particles >21µm		ASTM D7647 >80	176	35	151
Oil Cleanliness		ISO 4406 (c) >21/18/15	25/24/18	24/20/15	24/23/17

Customer Id: NUCCOFST
Sample No.: ST40604
Lab Number: 05930432
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
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

12 Nov 2022 Diag: Jonathan Hester

WEAR



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



26 Aug 2021 Diag: Angela Borella

WEAR



We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. Resample at the next service interval to monitor. 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 particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



08 May 2021 Diag: Don Baldrige

WEAR

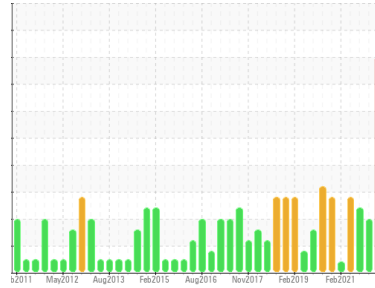


We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue. The iron level is abnormal. Bearing and/or bushing wear is indicated. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report



Machine Id
1231 LOCO
 Component
Air Compressor
 Fluid
NOT GIVEN (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		ST40604	ST40556	ST42437
Sample Date	Client Info		20 Aug 2023	12 Nov 2022	26 Aug 2021
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	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	154	59	78
Chromium	ppm	ASTM D5185m >4	1	0	<1
Nickel	ppm	ASTM D5185m >4	<1	0	<1
Titanium	ppm	ASTM D5185m	<1	<1	<1
Silver	ppm	ASTM D5185m	0	2	0
Aluminum	ppm	ASTM D5185m >10	3	1	2
Lead	ppm	ASTM D5185m >20	16	15	11
Copper	ppm	ASTM D5185m >40	24	20	16
Tin	ppm	ASTM D5185m >5	3	2	4
Antimony	ppm	ASTM D5185m	---	---	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	<1	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	26	35	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	20	20	<1
Manganese	ppm	ASTM D5185m	3	2	2
Magnesium	ppm	ASTM D5185m	373	334	<1
Calcium	ppm	ASTM D5185m	434	435	28
Phosphorus	ppm	ASTM D5185m	478	454	293
Zinc	ppm	ASTM D5185m	570	534	298
Sulfur	ppm	ASTM D5185m	1941	1857	659

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	10	4	6
Sodium	ppm	ASTM D5185m	9	3	6
Potassium	ppm	ASTM D5185m >20	2	2	0
Water	%	ASTM D6304 >0.6	0.036	0.030	0.006
ppm Water	ppm	ASTM D6304 >6000	365.2	304.4	63.0

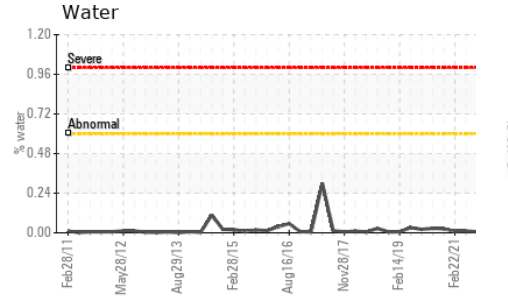
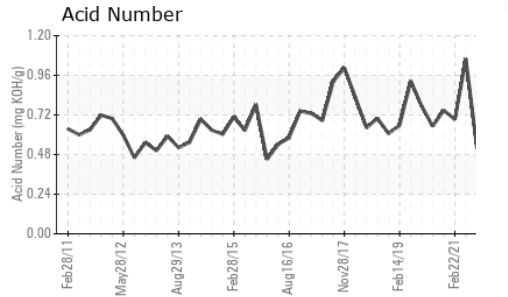
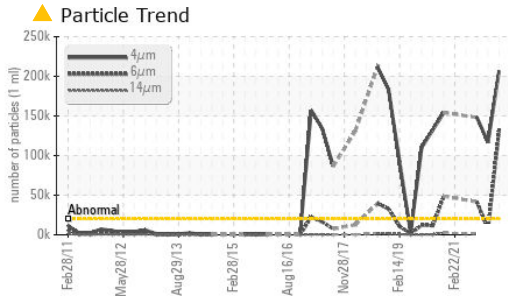
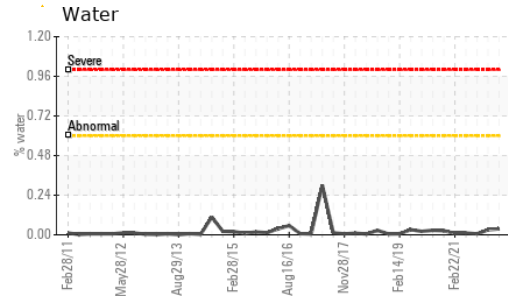
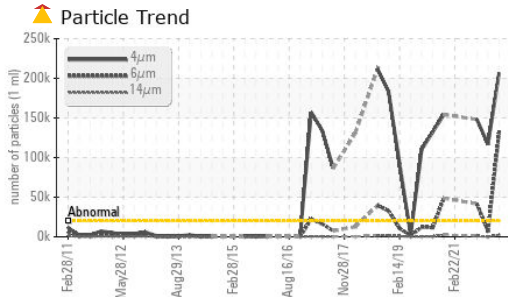
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	206710	116658	148030
Particles >6µm	ASTM D7647	>2500	131388	7219	41573
Particles >14µm	ASTM D7647	>320	2208	176	894
Particles >21µm	ASTM D7647	>80	176	35	151
Particles >38µm	ASTM D7647	>20	2	3	8
Particles >71µm	ASTM D7647	>4	0	0	0
Oil Cleanliness	ISO 4406 (c)	>21/18/15	25/24/18	24/20/15	24/23/17

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.764	0.68	0.516

OIL ANALYSIS REPORT



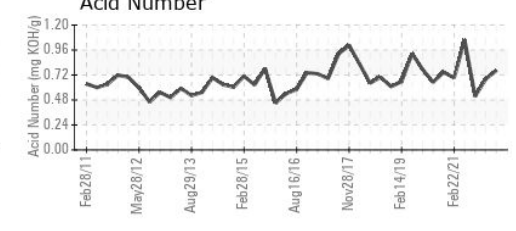
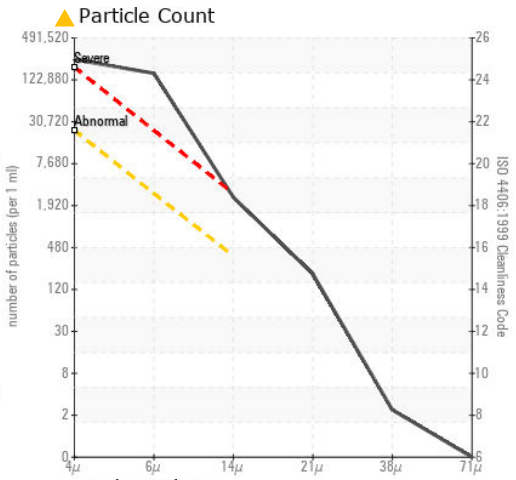
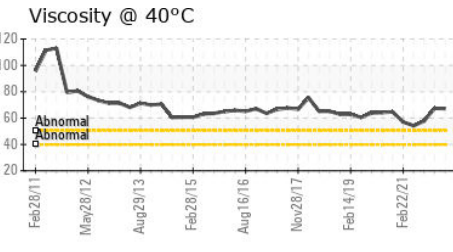
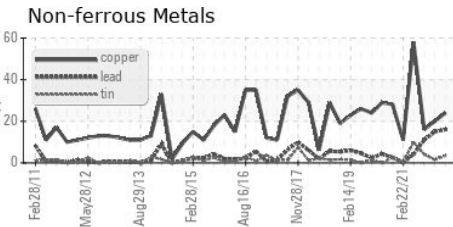
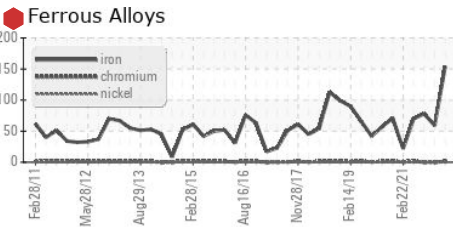
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	LIGHT	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE	NONE
Sand/Dirt	scalar	*Visual	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	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	67.2	67.4	57.8

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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ST40604 **Received** : 21 Aug 2023
Lab Number : 05930432 **Diagnosed** : 24 Aug 2023
Unique Number : 10615703 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF, PrtCount)

NUCOR STEEL-HERTFORD
 PO BOX 279
 WINTON, NC
 US 27986
 Contact: JOHN REUTER
 jreuter@hpsystemsinc.com
 T:
 F: (252)356-1369

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)