

PROBLEM SUMMARY

Sample Rating Trend



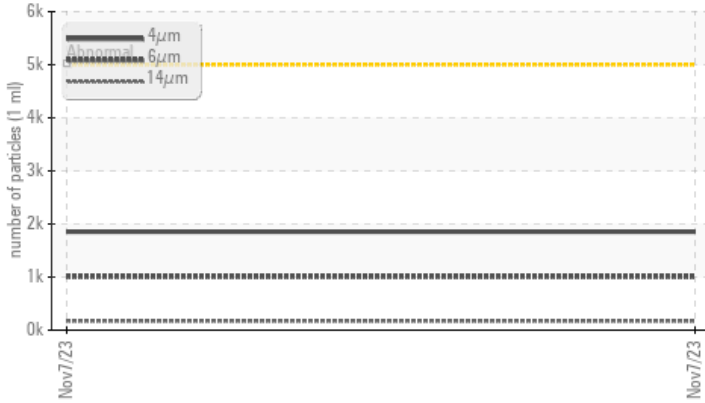
ISO



Machine Id
CASTER 4
Component
Hydraulic System
Fluid
NOT GIVEN (100 GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	---	---
Particles >14µm	ASTM D7647	>160	▲ 172	---	---
Particles >21µm	ASTM D7647	>40	▲ 58	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 18/17/15	---	---

Customer Id: NUCMAR
Sample No.: ST44100
Lab Number: 06007033
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



Machine Id
CASTER 4
 Component
Hydraulic System
 Fluid
NOT GIVEN (100 GAL)



DIAGNOSIS

- ▲ Recommendation**
 No corrective action is recommended at this time. Resample at the next service interval to monitor.
- Wear**
 All component wear rates are normal.
- ▲ Contamination**
 There is a moderate amount of particulates present in the fluid.
- Fluid Condition**
 The pH level of this fluid is within the acceptable limits at 9.0. The condition of the fluid is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	ST44100	---	---
Sample Date	Client Info	07 Nov 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ATTENTION	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>20	2	---	---
Chromium ppm ASTM D5185m	>20	<1	---	---
Nickel ppm ASTM D5185m	>20	<1	---	---
Titanium ppm ASTM D5185m		<1	---	---
Silver ppm ASTM D5185m		0	---	---
Aluminum ppm ASTM D5185m	>20	11	---	---
Lead ppm ASTM D5185m	>20	0	---	---
Copper ppm ASTM D5185m	>20	<1	---	---
Tin ppm ASTM D5185m	>20	<1	---	---
Vanadium ppm ASTM D5185m		1	---	---
Cadmium ppm ASTM D5185m		<1	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		3	---	---
Barium ppm ASTM D5185m		0	---	---
Molybdenum ppm ASTM D5185m		0	---	---
Manganese ppm ASTM D5185m		<1	---	---
Magnesium ppm ASTM D5185m		2	---	---
Calcium ppm ASTM D5185m		8	---	---
Phosphorus ppm ASTM D5185m		19	---	---
Zinc ppm ASTM D5185m		4	---	---
Sulfur ppm ASTM D5185m		0	---	---

CONTAMINANTS

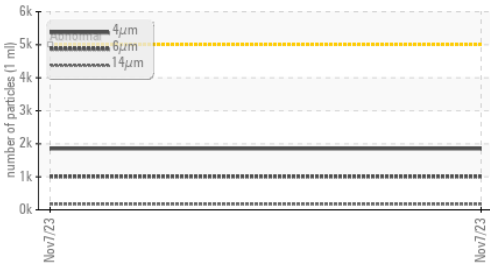
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	2	---	---
Sodium ppm ASTM D5185m		46	---	---
Potassium ppm ASTM D5185m	>20	6	---	---
Water % ASTM D6304	>0.05	30.8	---	---
ppm Water ppm ASTM D6304	>500	308000	---	---

FLUID CLEANLINESS

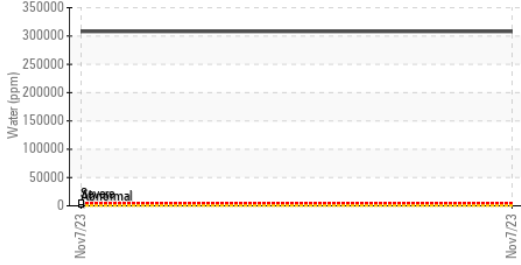
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	1853	---	---
Particles >6µm ASTM D7647	>1300	1009	---	---
Particles >14µm ASTM D7647	>160	▲ 172	---	---
Particles >21µm ASTM D7647	>40	▲ 58	---	---
Particles >38µm ASTM D7647	>10	9	---	---
Particles >71µm ASTM D7647	>3	1	---	---
Oil Cleanliness ISO 4406 (c)	>19/17/14	▲ 18/17/15	---	---

OIL ANALYSIS REPORT

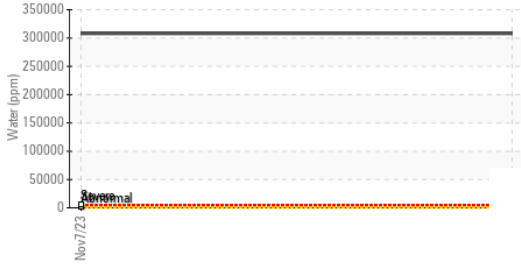
▲ Particle Trend



Water (KF)



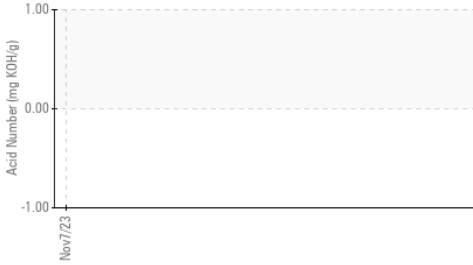
Water (KF)



Viscosity @ 40°C



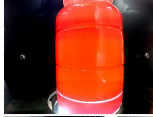

Acid Number



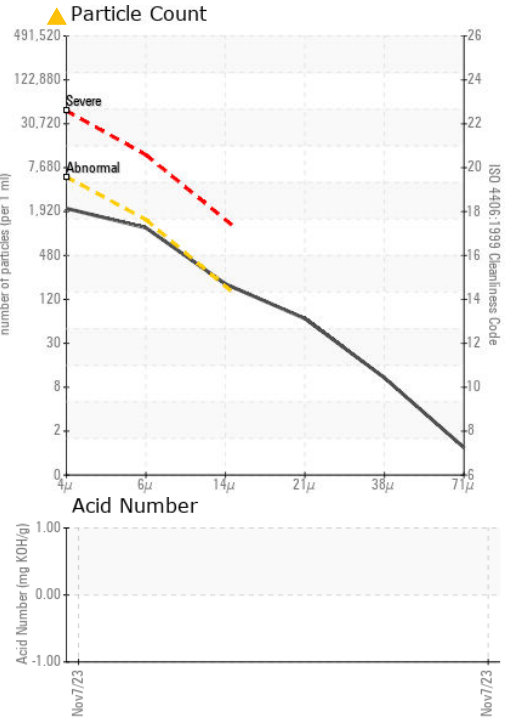
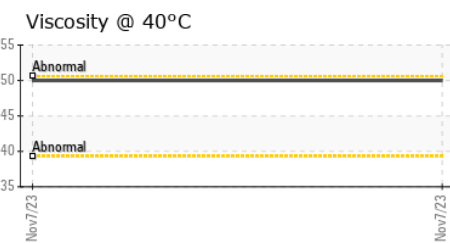
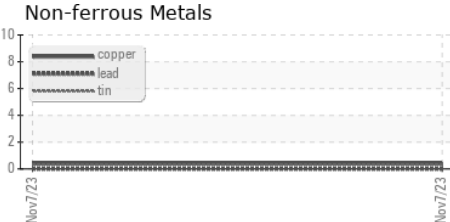
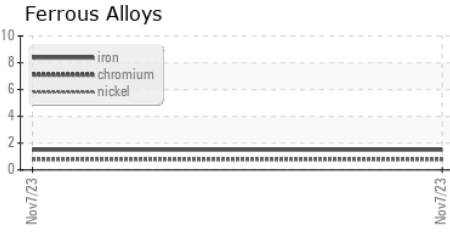
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.05	0.2%	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
pH	Scale 0-14	ASTM D1287	9.00	---	---
Visc @ 40°C	cSt	ASTM D445	50.0	---	---

SAMPLE IMAGES

method	limit/base	current	history1	history2
Color			no image	no image
Bottom			no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ST44100 **Received** : 14 Nov 2023
Lab Number : 06007033 **Diagnosed** : 29 Nov 2023
Unique Number : 10740795 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, ph, VI)

NUCOR STEEL MARION
 912 CHENEY AVE
 MARION, OH
 US 43302
 Contact: TODD EBLIN

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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