

PROBLEM SUMMARY

Sample Rating Trend



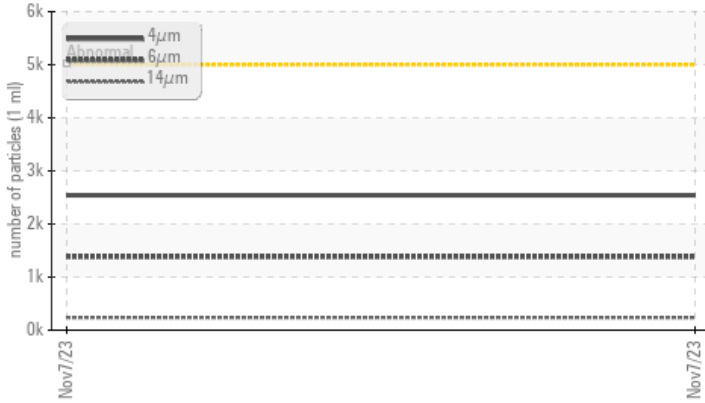
ISO



Machine Id
CASTER 3
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 >6µm	ASTM D7647	>1300	▲ 1384	---	---
Particles >14µm	ASTM D7647	>160	▲ 236	---	---
Particles >21µm	ASTM D7647	>40	▲ 79	---	---
Particles >38µm	ASTM D7647	>10	▲ 12	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 19/18/15	---	---

Customer Id: NUCMAR
Sample No.: ST42651
Lab Number: 06007030
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

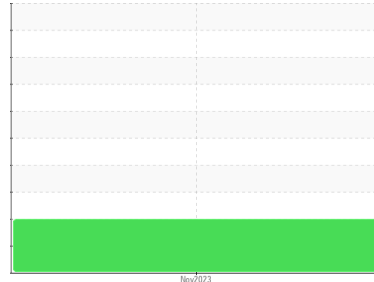
RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



Machine Id
CASTER 3
 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		ST42651	---	---
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	7	---	---
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	<1	---	---
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	4	---	---
Barium	ppm	ASTM D5185m	0	---	---
Molybdenum	ppm	ASTM D5185m	0	---	---
Manganese	ppm	ASTM D5185m	<1	---	---
Magnesium	ppm	ASTM D5185m	3	---	---
Calcium	ppm	ASTM D5185m	7	---	---
Phosphorus	ppm	ASTM D5185m	21	---	---
Zinc	ppm	ASTM D5185m	24	---	---
Sulfur	ppm	ASTM D5185m	0	---	---

CONTAMINANTS

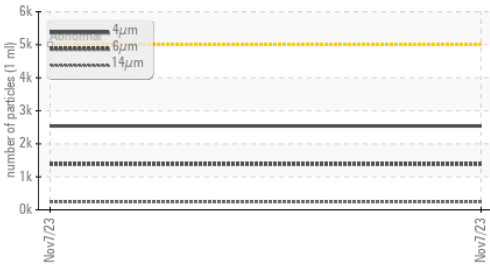
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	2	---	---
Sodium	ppm	ASTM D5185m	28	---	---
Potassium	ppm	ASTM D5185m >20	5	---	---
Water	%	ASTM D6304 >0.05	40.2	---	---
ppm Water	ppm	ASTM D6304 >500	402000	---	---

FLUID CLEANLINESS

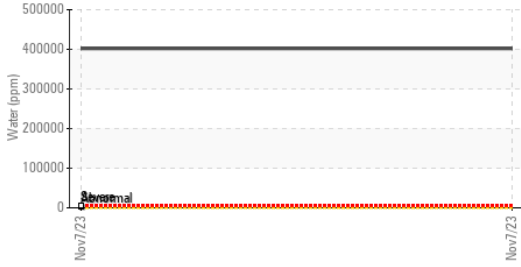
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	2540	---	---
Particles >6µm	ASTM D7647	>1300	▲ 1384	---	---
Particles >14µm	ASTM D7647	>160	▲ 236	---	---
Particles >21µm	ASTM D7647	>40	▲ 79	---	---
Particles >38µm	ASTM D7647	>10	▲ 12	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 19/18/15	---	---

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	---

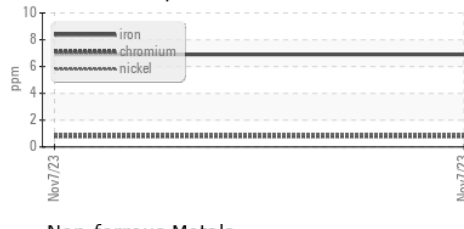
FLUID PROPERTIES	method	limit/base	current	history1	history2
pH	Scale 0-14	ASTM D1287	9.00	---	---
Visc @ 40°C	cSt	ASTM D445	51.4	---	---

SAMPLE IMAGES

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

GRAPHS

Ferrous Alloys



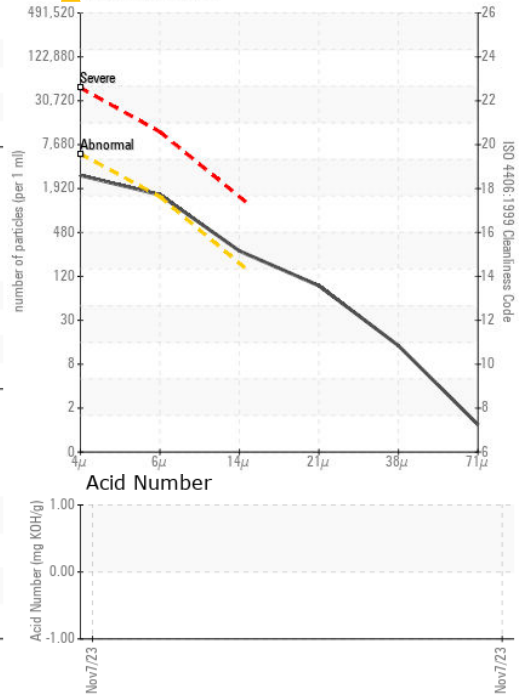
Non-ferrous Metals



Viscosity @ 40°C



▲ Particle Count



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ST42651 **Received** : 14 Nov 2023
Lab Number : 06007030 **Diagnosed** : 29 Nov 2023
Unique Number : 10740792 **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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