

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
CASTER 1
 Component
Hydraulic System
 Fluid
NOT GIVEN (100 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 fluid. The amount and size of particulates present in the system are acceptable.

Fluid Condition
 The pH level of this fluid is within the acceptable limits. The pH is 9.00. The condition of the fluid is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		ST44107	---	---
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			NORMAL	---	---

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	9	---	---
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	2	---	---
Barium	ppm	ASTM D5185m	0	---	---
Molybdenum	ppm	ASTM D5185m	0	---	---
Manganese	ppm	ASTM D5185m	<1	---	---
Magnesium	ppm	ASTM D5185m	1	---	---
Calcium	ppm	ASTM D5185m	3	---	---
Phosphorus	ppm	ASTM D5185m	16	---	---
Zinc	ppm	ASTM D5185m	5	---	---
Sulfur	ppm	ASTM D5185m	0	---	---

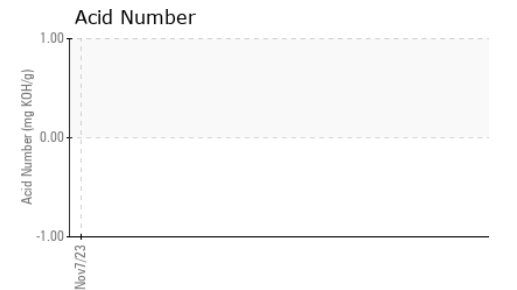
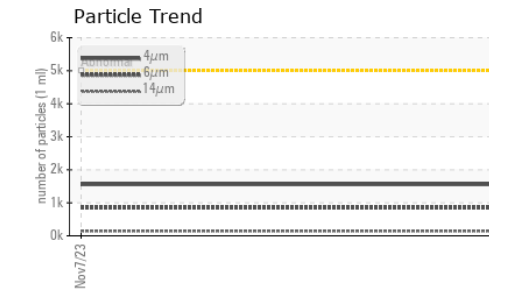
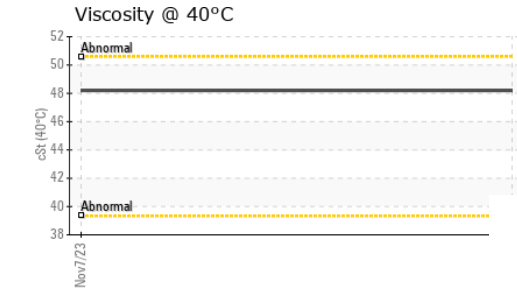
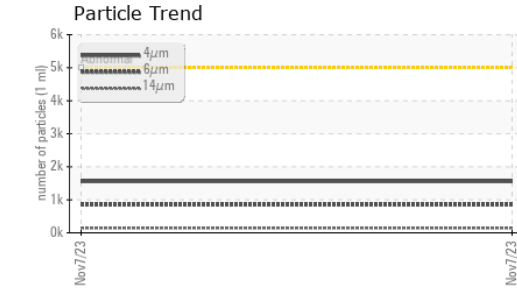
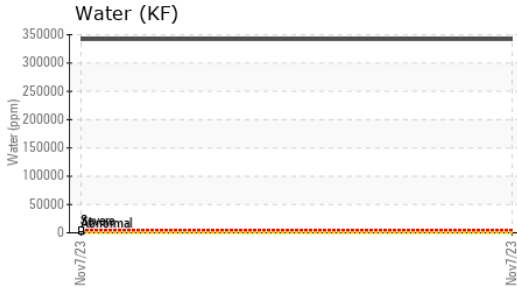
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	2	---	---
Sodium	ppm	ASTM D5185m	27	---	---
Potassium	ppm	ASTM D5185m >20	4	---	---
Water	%	ASTM D6304 >0.05	34.2	---	---
ppm Water	ppm	ASTM D6304 >500	342000	---	---

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	1557	---	---
Particles >6µm	ASTM D7647	>1300	848	---	---
Particles >14µm	ASTM D7647	>160	144	---	---
Particles >21µm	ASTM D7647	>40	49	---	---
Particles >38µm	ASTM D7647	>10	8	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	18/17/14	---	---

OIL ANALYSIS REPORT



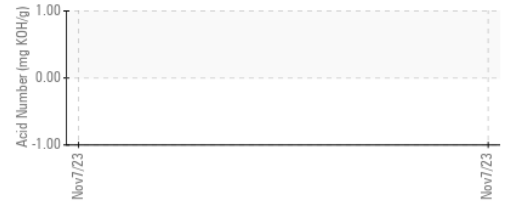
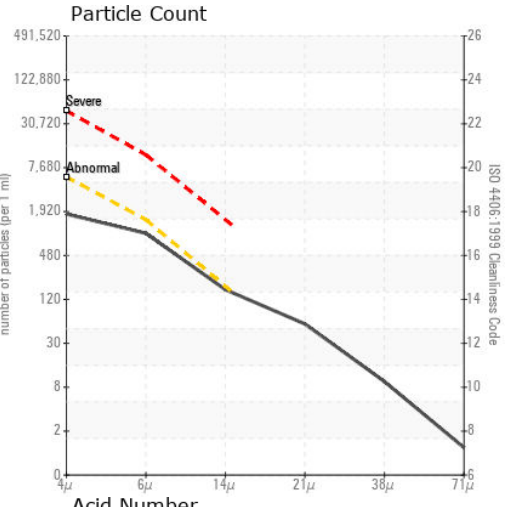
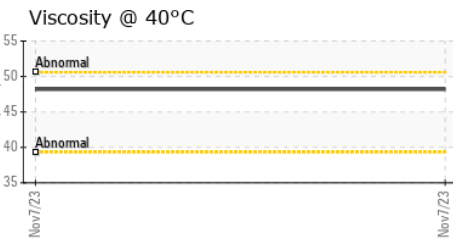
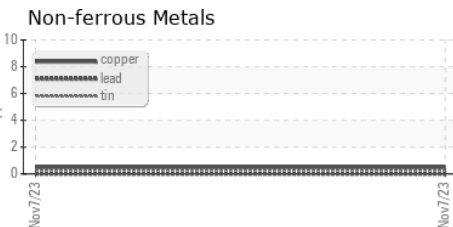
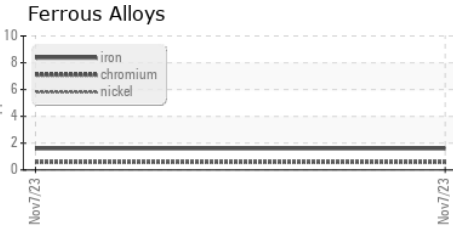
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	48.2	---	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ST44107 **Received** : 14 Nov 2023
Lab Number : 06007035 **Diagnosed** : 29 Nov 2023
Unique Number : 10740797 **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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