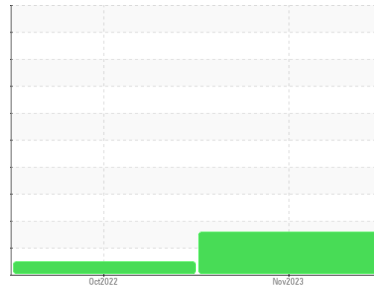


PROBLEM SUMMARY

Sample Rating Trend



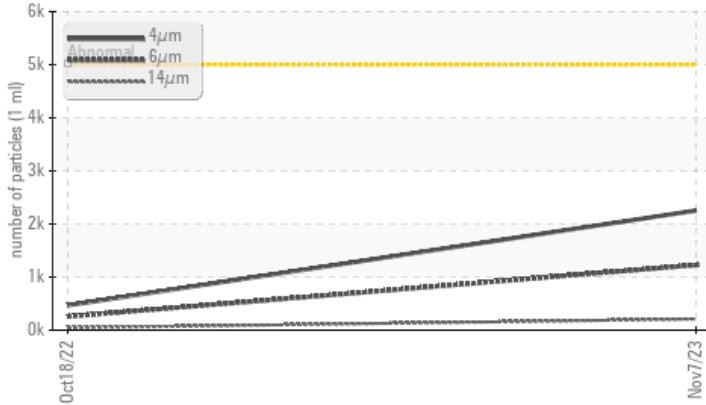
ISO



Machine Id
MEDICON
Component
Hydraulic System
Fluid
NOT GIVEN (115 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	NORMAL	---
Particles >14µm	ASTM D7647	>160	▲ 209	43	---
Particles >21µm	ASTM D7647	>40	▲ 70	15	---
Particles >38µm	ASTM D7647	>10	▲ 11	2	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 18/17/15	16/15/13	---

Customer Id: NUCMAR
Sample No.: ST44106
Lab Number: 06007036
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

18 Oct 2022 Diag: Jonathan Hester

NORMAL



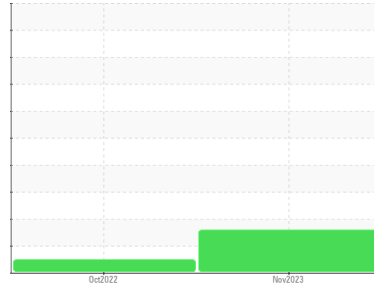
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The pH level of this fluid is within the acceptable limits. The pH is 9.00. The condition of the oil is acceptable for the time in service.

view report





Machine Id
MEDICON
 Component
Hydraulic System
 Fluid
NOT GIVEN (115 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		ST44106	ST39238	---
Sample Date	Client Info		07 Nov 2023	18 Oct 2022	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ATTENTION	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>20	2	0	---
Chromium	ppm	ASTM D5185m	>20	<1	0	---
Nickel	ppm	ASTM D5185m	>20	<1	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>20	6	0	---
Lead	ppm	ASTM D5185m	>20	0	0	---
Copper	ppm	ASTM D5185m	>20	<1	0	---
Tin	ppm	ASTM D5185m	>20	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
Cadmium	ppm	ASTM D5185m		<1	0	---

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<1	0	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		0	0	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		1	0	---
Calcium	ppm	ASTM D5185m		4	0	---
Phosphorus	ppm	ASTM D5185m		18	10	---
Zinc	ppm	ASTM D5185m		3	0	---
Sulfur	ppm	ASTM D5185m		0	0	---

CONTAMINANTS

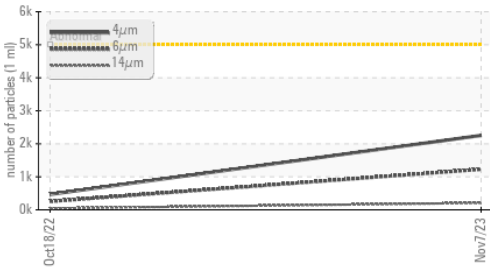
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	1	<1	---
Sodium	ppm	ASTM D5185m		23	0	---
Potassium	ppm	ASTM D5185m	>20	2	0	---
Water	%	ASTM D6304	>0.05	41.7	34.7	---
ppm Water	ppm	ASTM D6304	>500	417000	347000	---

FLUID CLEANLINESS

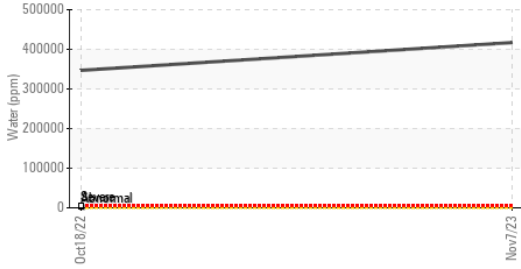
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	2253	468	---
Particles >6µm	ASTM D7647	>1300	1227	255	---
Particles >14µm	ASTM D7647	>160	▲ 209	43	---
Particles >21µm	ASTM D7647	>40	▲ 70	15	---
Particles >38µm	ASTM D7647	>10	▲ 11	2	---
Particles >71µm	ASTM D7647	>3	1	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 18/17/15	16/15/13	---

OIL ANALYSIS REPORT

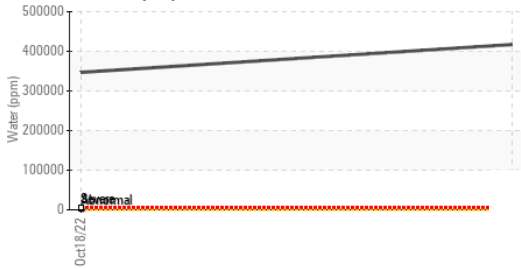
▲ Particle Trend



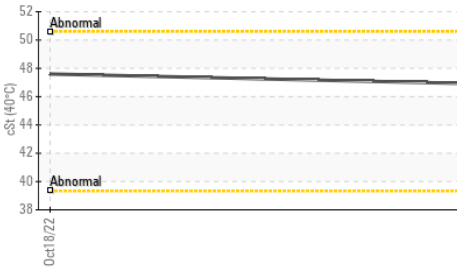
Water (KF)



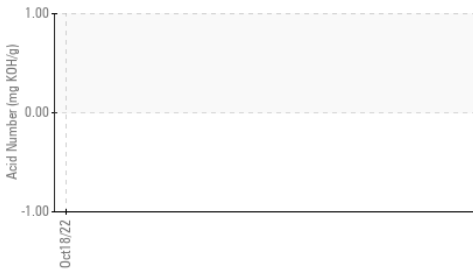
Water (KF)



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	VLITE
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	9.00	---
Visc @ 40°C	cSt	ASTM D445	46.9	47.6	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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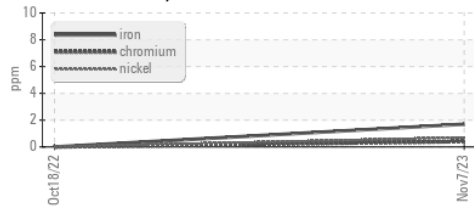
Color

Bottom

no image

GRAPHS

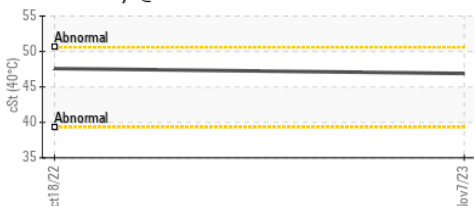
Ferrous Alloys



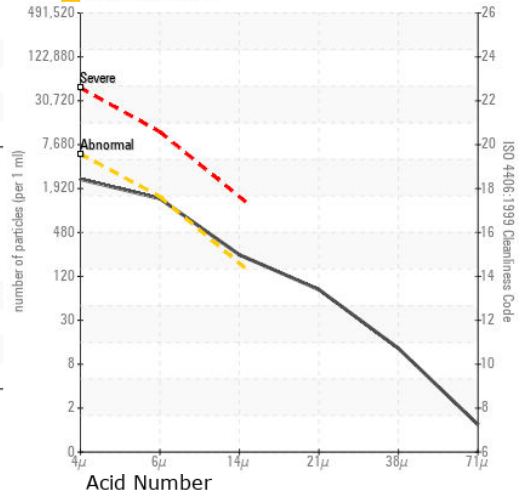
Non-ferrous Metals



Viscosity @ 40°C



▲ Particle Count



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ST44106 **Received** : 14 Nov 2023
Lab Number : 06007036 **Diagnosed** : 29 Nov 2023
Unique Number : 10740798 **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)

T: (740)383-4011
 F: (740)375-5871