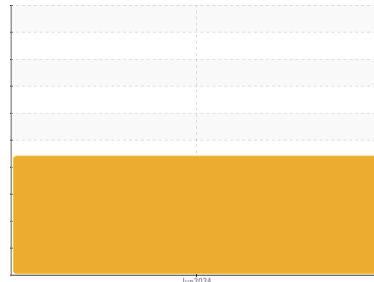


# OIL ANALYSIS REPORT

## Sample Rating Trend



**DIRT**



Machine Id

**1**

Component

**Gearbox**

Fluid

**FUCHS RENOLIN CLP ISO 220 (--- LTR)**

## DIAGNOSIS

### ▲ Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### ▲ Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. The amount and size of particulates present in the system are acceptable.

### ● Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The AN level is at the top-end of the recommended limit.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>FCH0000101</b>	---	---
Sample Date	Client Info		<b>12 Jun 2024</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>1</b>	---	---
Chromium	ppm	ASTM D5185m >15	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m >15	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m	<b>0</b>	---	---
Silver	ppm	ASTM D5185m	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >25	<b>4</b>	---	---
Lead	ppm	ASTM D5185m >100	<b>0</b>	---	---
Copper	ppm	ASTM D5185m >200	<b>3</b>	---	---
Tin	ppm	ASTM D5185m >25	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 20	<b>0</b>	---	---
Barium	ppm	ASTM D5185m	<b>4</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>1639</b>	---	---
Manganese	ppm	ASTM D5185m	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Calcium	ppm	ASTM D5185m 25	<b>50</b>	---	---
Phosphorus	ppm	ASTM D5185m 230	<b>2655</b>	---	---
Zinc	ppm	ASTM D5185m	<b>961</b>	---	---
Sulfur	ppm	ASTM D5185m 4900	<b>8482</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>▲ 81</b>	---	---
Sodium	ppm	ASTM D5185m	<b>1</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	---	---
Water	%	ASTM D6304 >0.2	<b>NEG</b>	---	---

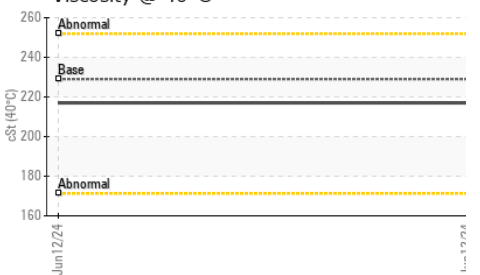
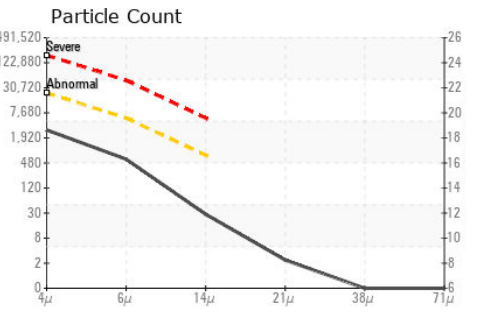
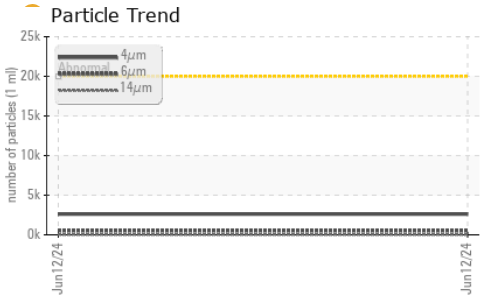
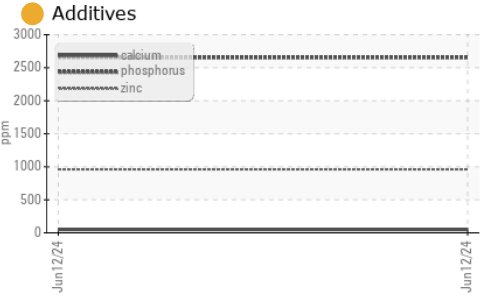
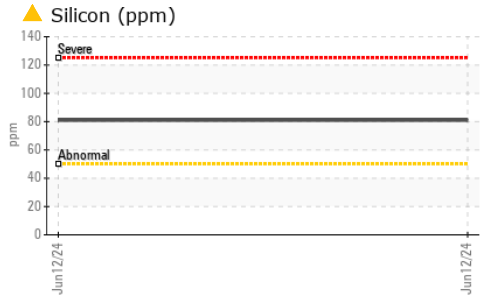
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>2609</b>	---	---
Particles >6µm	ASTM D7647	>5000	<b>520</b>	---	---
Particles >14µm	ASTM D7647	>640	<b>25</b>	---	---
Particles >21µm	ASTM D7647	>160	<b>2</b>	---	---
Particles >38µm	ASTM D7647	>40	<b>0</b>	---	---
Particles >71µm	ASTM D7647	>10	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>19/16/12</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.6	<b>● 3.63</b>	---	---

# OIL ANALYSIS REPORT



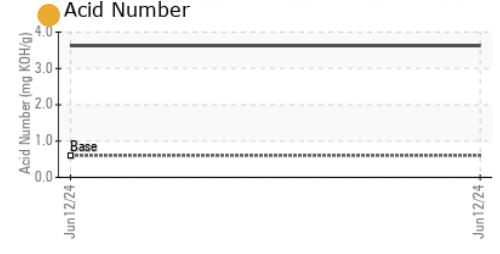
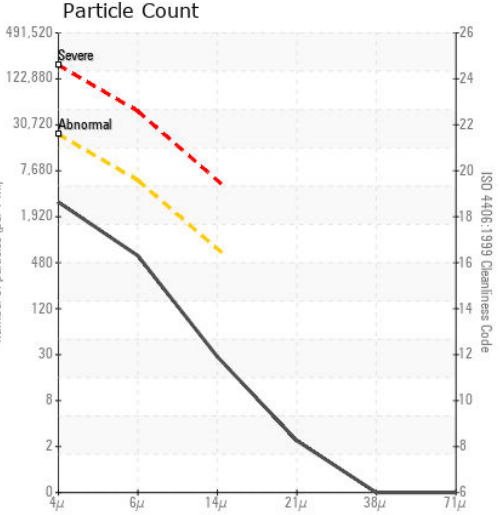
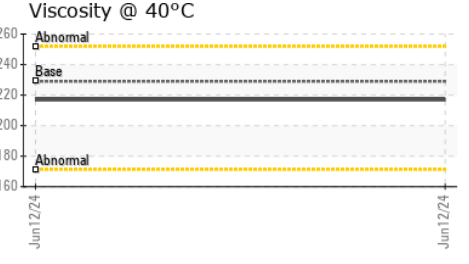
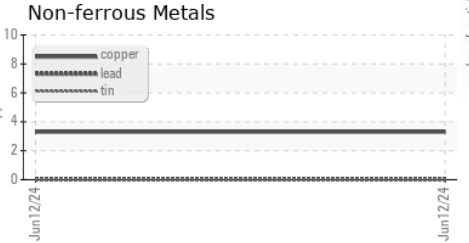
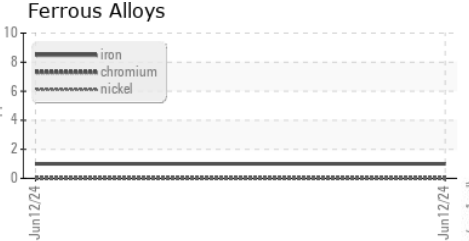
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 229	217	---	---

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.** : FCH0000101      **Received** : 14 Jun 2024  
**Lab Number** : 06210080      **Tested** : 20 Jun 2024  
**Unique Number** : 11082944      **Diagnosed** : 20 Jun 2024 - Jonathan Hester  
**Test Package** : PLANT ( Additional Tests: KF, PrtCount )

**NTP DECATUR - NUCOR TUBULAR PRODUCTS**  
 2000 INDEPENDENCE DR  
 DECATUR, AL  
 US 35601  
 Contact: Service Manager

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:  
F: