



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**2**  
Component  
**Gearbox**  
Fluid  
**FUCHS RENOLIN CLP ISO 220 (--- LTR)**

**RECOMMENDATION**

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		FCH0000102	---	---
Sample Date		Client Info		12 Jun 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	13	---	---
Chromium	ppm	ASTM D5185m	>15	0	---	---
Nickel	ppm	ASTM D5185m	>15	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	4	---	---
Lead	ppm	ASTM D5185m	>100	0	---	---
Copper	ppm	ASTM D5185m	>200	4	---	---
Tin	ppm	ASTM D5185m	>25	0	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

**CONTAMINATION**

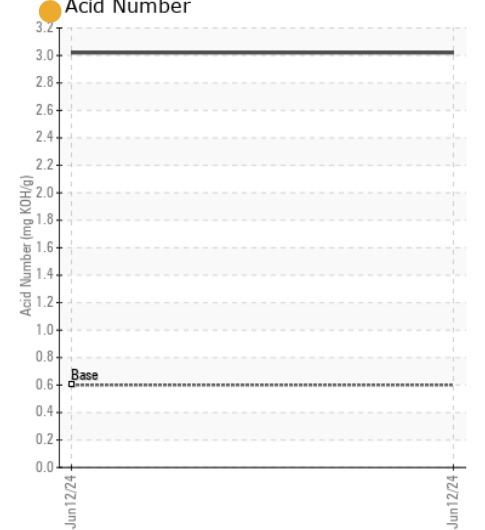
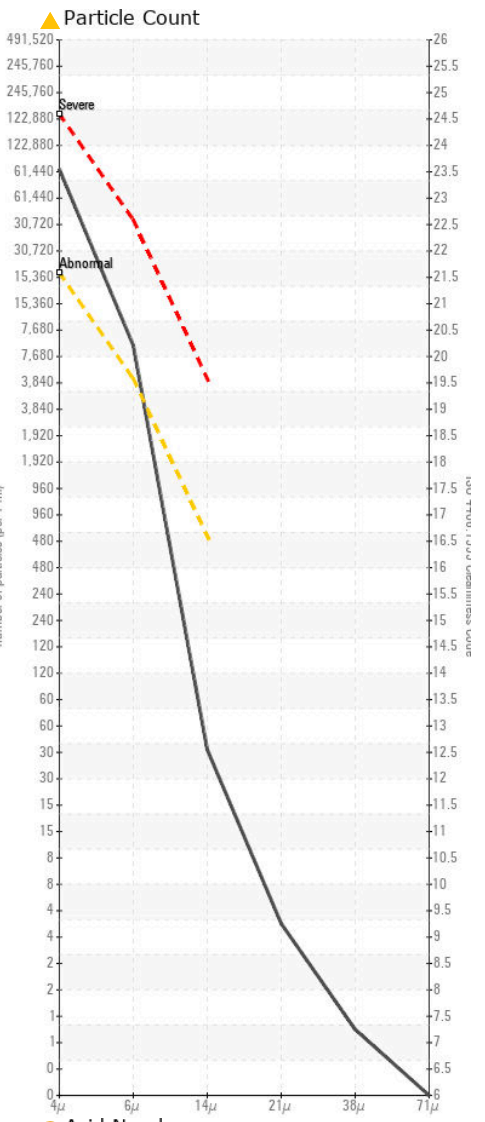
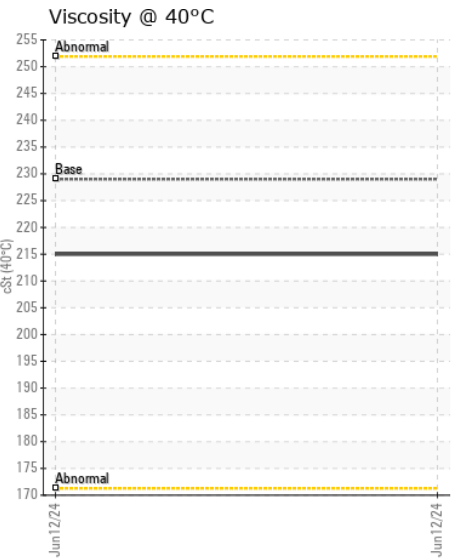
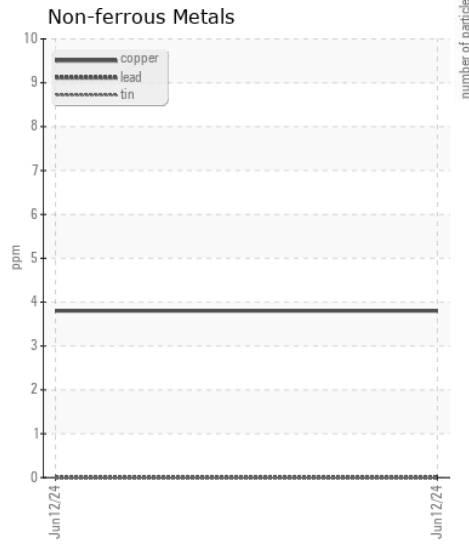
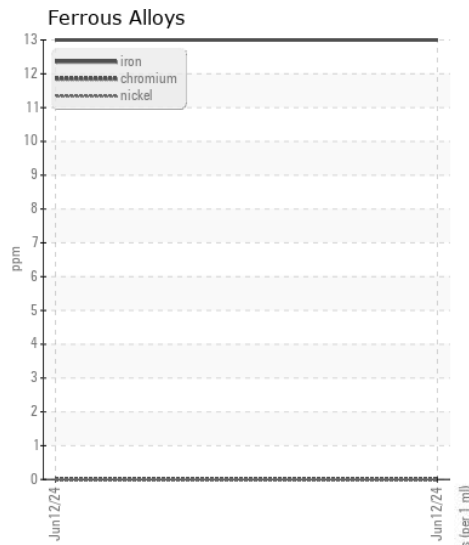
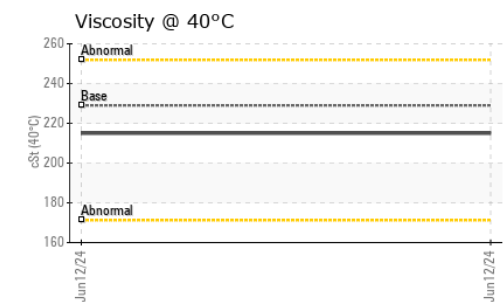
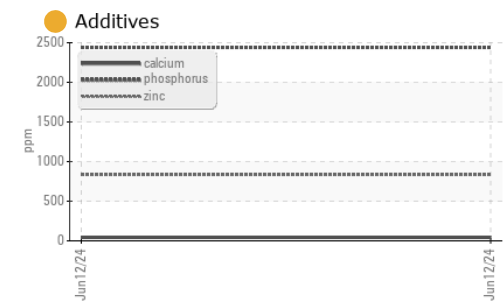
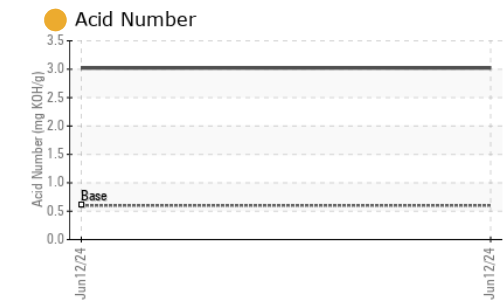
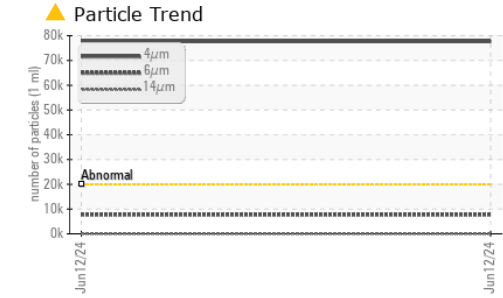
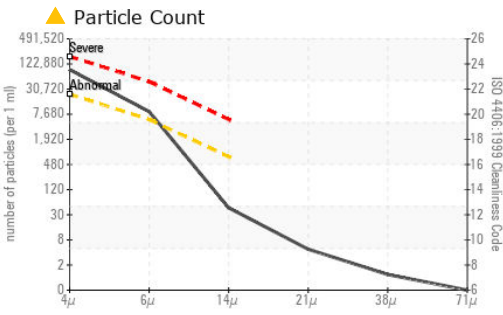
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>50	45	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water	%	ASTM D6304	>0.2	NEG	---	---
Particles >4µm		ASTM D7647	>20000	▲ 77669	---	---
Particles >6µm		ASTM D7647	>5000	● 7728	---	---
Particles >14µm		ASTM D7647	>640	39	---	---
Particles >21µm		ASTM D7647	>160	4	---	---
Particles >38µm		ASTM D7647	>40	1	---	---
Particles >71µm		ASTM D7647	>10	0	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 23/20/12	---	---
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	---	---

**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.

Sodium	ppm	ASTM D5185m		<1	---	---
Boron	ppm	ASTM D5185m	20	0	---	---
Barium	ppm	ASTM D5185m		4	---	---
Molybdenum	ppm	ASTM D5185m		● 1471	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		<1	---	---
Calcium	ppm	ASTM D5185m	25	44	---	---
Phosphorus	ppm	ASTM D5185m	230	● 2441	---	---
Zinc	ppm	ASTM D5185m		● 833	---	---
Sulfur	ppm	ASTM D5185m	4900	10933	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.6	● 3.02	---	---
Visc @ 40°C	cSt	ASTM D445	229	215	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : FCH0000102 **Received** : 14 Jun 2024  
**Lab Number** : 06210081 **Tested** : 20 Jun 2024  
**Unique Number** : 11082945 **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: