



Machine Id

1

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		FCH0000101	---	---
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	1	---	---
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	3	---	---
Tin	ppm	ASTM D5185m	>25	0	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

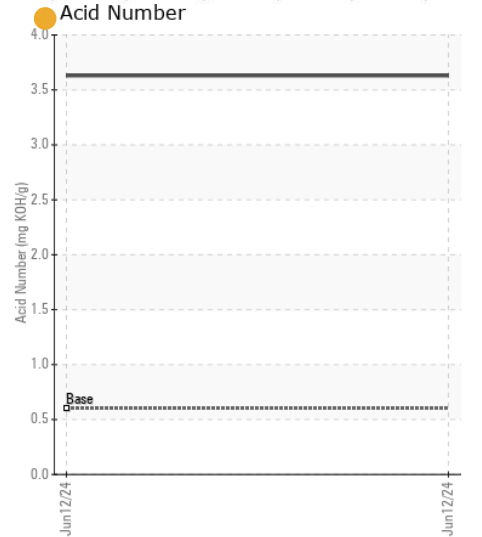
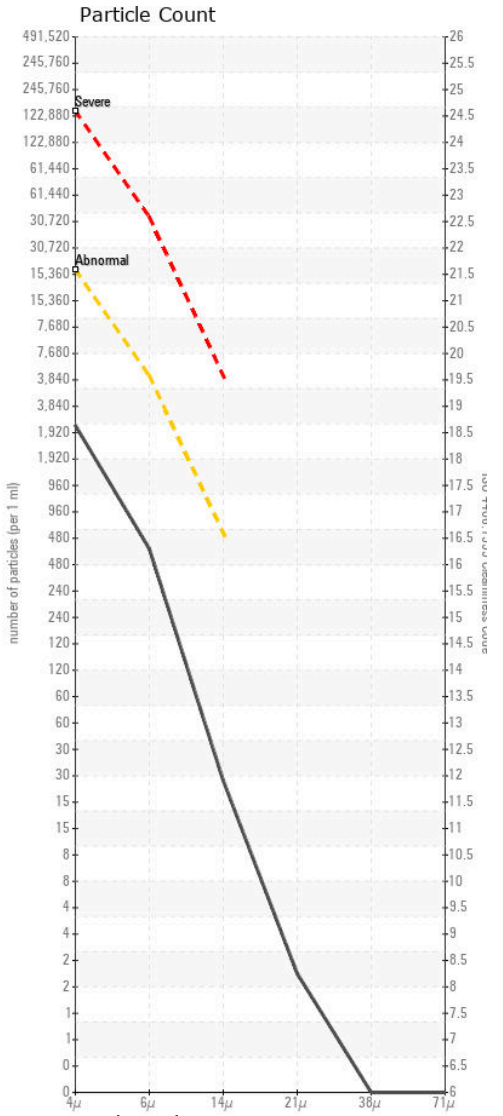
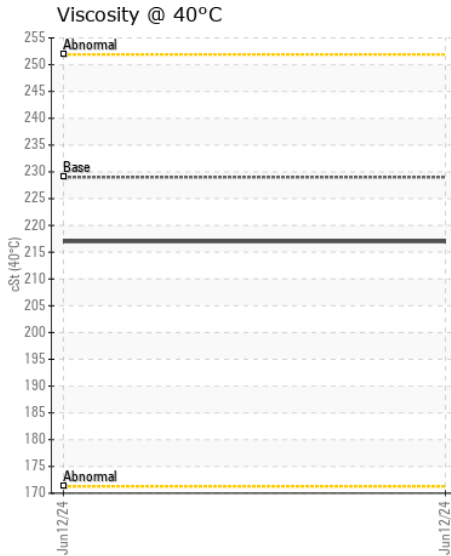
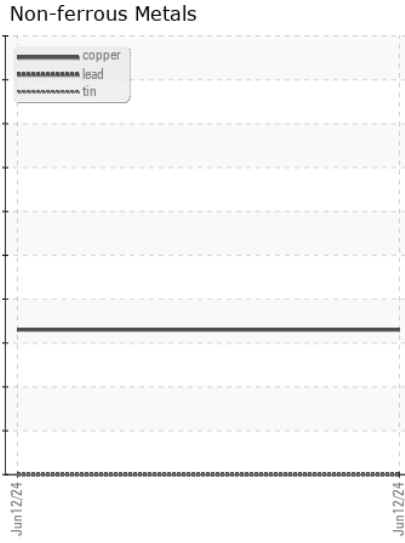
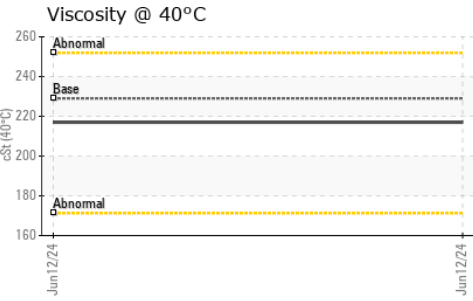
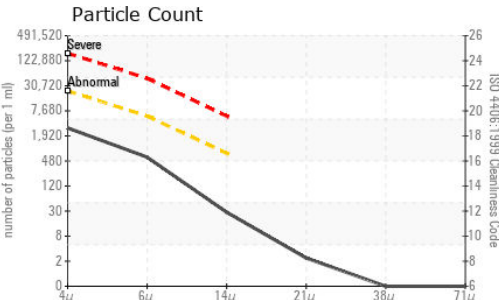
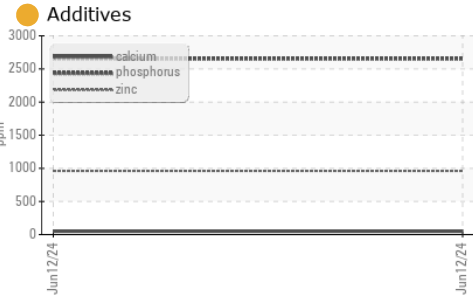
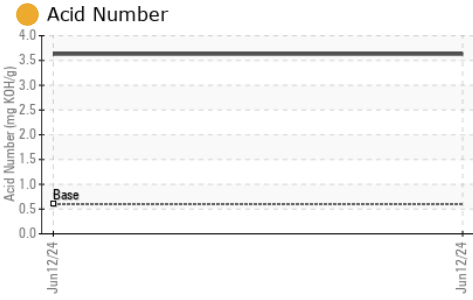
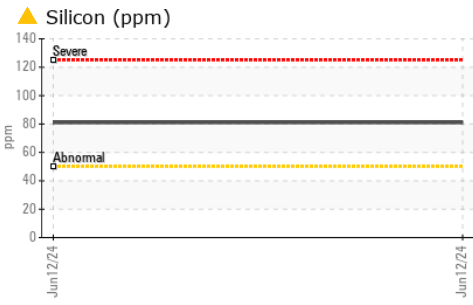
Elemental level of silicon (Si) above normal indicating ingress of seal material. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>50	▲ 81	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water	%	ASTM D6304	>0.2	NEG	---	---
Particles >4µm		ASTM D7647	>20000	2609	---	---
Particles >6µm		ASTM D7647	>5000	520	---	---
Particles >14µm		ASTM D7647	>640	25	---	---
Particles >21µm		ASTM D7647	>160	2	---	---
Particles >38µm		ASTM D7647	>40	0	---	---
Particles >71µm		ASTM D7647	>10	0	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/16/12	---	---
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		● 1639	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		<1	---	---
Calcium	ppm	ASTM D5185m	25	50	---	---
Phosphorus	ppm	ASTM D5185m	230	● 2655	---	---
Zinc	ppm	ASTM D5185m		● 961	---	---
Sulfur	ppm	ASTM D5185m	4900	● 8482	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.6	● 3.63	---	---
Visc @ 40°C	cSt	ASTM D445	229	217	---	---



Certificate L2367

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)

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F: