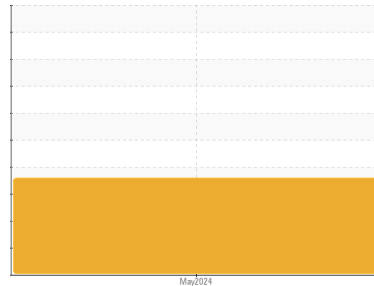


# PROBLEM SUMMARY

Area  
**K21**  
 Machine Id  
**MAZAK 290902 - TABLE CHILLER**  
 Component  
**Compressor**  
 Fluid  
**MOBIL SHC 626 (19 GAL)**

## Sample Rating Trend



## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

## PROBLEMATIC TEST RESULTS

Sample Status			<b>SEVERE</b>	---	---
Particles >4µm	ASTM D7647	>10000	<b>▲ 130728</b>	---	---
Particles >6µm	ASTM D7647	>2500	<b>▲ 41182</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>▲ 24/23/15</b>	---	---

Customer Id: UC DANLAF  
 Sample No.: FCH0000087  
 Lab Number: 06181958  
 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Wes Davis +1 905-569-8600 x223  
[wesd@wearcheck.ca](mailto:wesd@wearcheck.ca)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

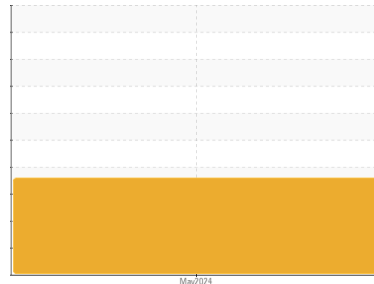
## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Resample	---	---	?	Resample in 30-45 days to monitor this situation.
Check Breathers	---	---	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.

## HISTORICAL DIAGNOSIS

# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

**K21**

Machine Id

**MAZAK 290902 - TABLE CHILLER**

Component

**Compressor**

Fluid

**MOBIL SHC 626 (19 GAL)**

## DIAGNOSIS

### ▲ Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation.

### Wear

All component wear rates are normal.

### ▲ Contamination

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

### Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>FCH0000087</b>	---	---
Sample Date	Client Info		<b>13 May 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>SEVERE</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>10</b>	---
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	---
Nickel	ppm	ASTM D5185m		<b>0</b>	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	---
Aluminum	ppm	ASTM D5185m	>15	<b>0</b>	---
Lead	ppm	ASTM D5185m	>65	<b>&lt;1</b>	---
Copper	ppm	ASTM D5185m	>65	<b>1</b>	---
Tin	ppm	ASTM D5185m	>10	<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		<b>0</b>	---
Barium	ppm	ASTM D5185m		<b>0</b>	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	---
Manganese	ppm	ASTM D5185m		<b>0</b>	---
Magnesium	ppm	ASTM D5185m		<b>0</b>	---
Calcium	ppm	ASTM D5185m		<b>0</b>	---
Phosphorus	ppm	ASTM D5185m		<b>499</b>	---
Zinc	ppm	ASTM D5185m		<b>1</b>	---
Sulfur	ppm	ASTM D5185m		<b>50</b>	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	<b>2</b>	---
Sodium	ppm	ASTM D5185m		<b>2</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	---

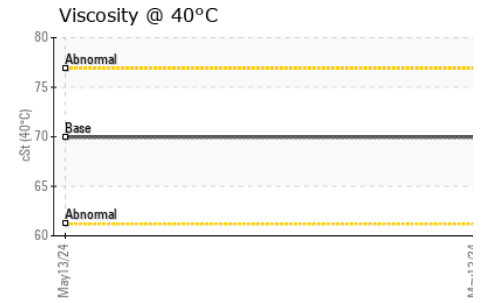
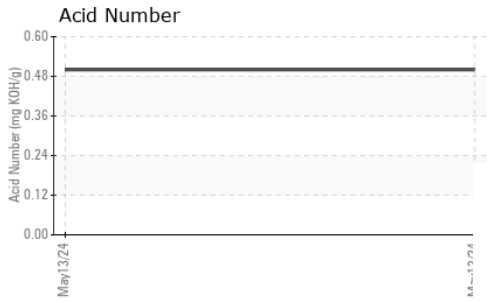
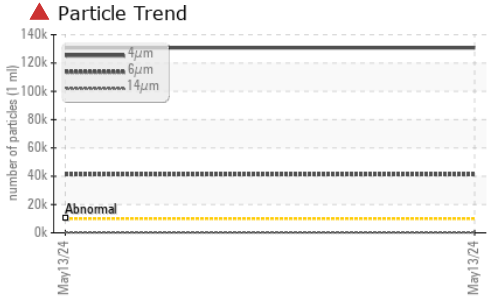
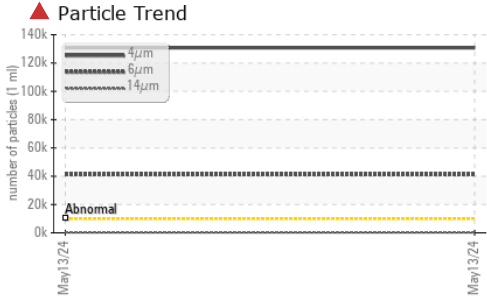
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>▲ 130728</b>	---	---
Particles >6µm	ASTM D7647	>2500	<b>▲ 41182</b>	---	---
Particles >14µm	ASTM D7647	>320	<b>317</b>	---	---
Particles >21µm	ASTM D7647	>80	<b>23</b>	---	---
Particles >38µm	ASTM D7647	>20	<b>1</b>	---	---
Particles >71µm	ASTM D7647	>4	<b>1</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>▲ 24/23/15</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.50</b>	---

# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	---
Free Water	scalar	*Visual		<b>NEG</b>	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	69.9	<b>70.0</b>	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

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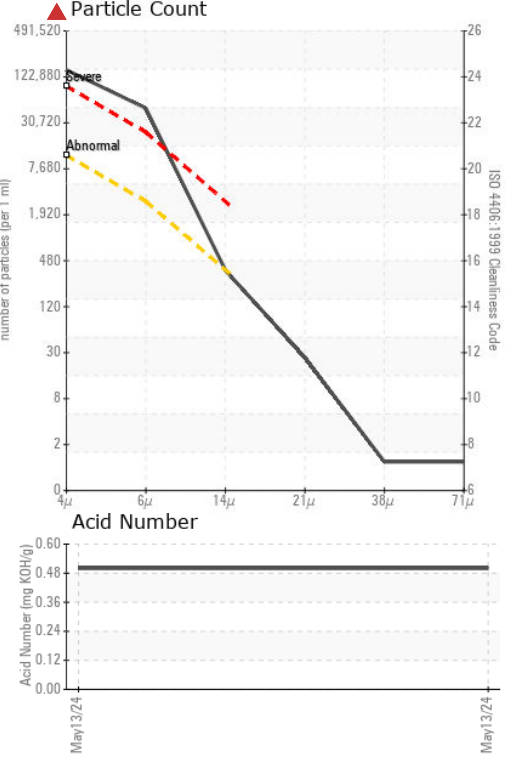
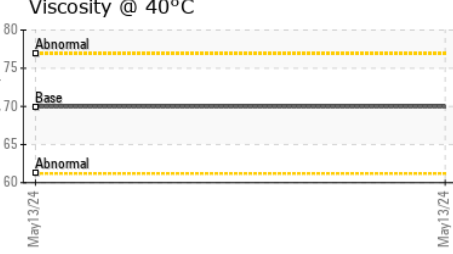
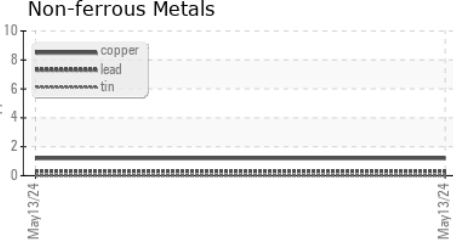
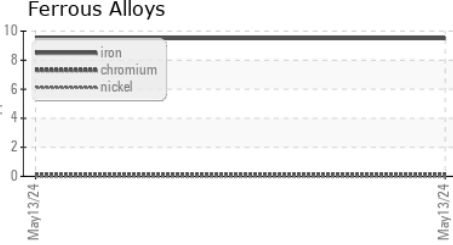
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : FCH0000087  
**Lab Number** : 06181958  
**Unique Number** : 11033284  
**Test Package** : PLANT

**Received** : 16 May 2024  
**Tested** : 17 May 2024  
**Diagnosed** : 17 May 2024 - Wes Davis

**DANA - FAIRFIELD CUSTOM GEARS AND DRIVES**  
 2400 SAGAMORE PKWY S #2400  
 LAFAYETTE, IN  
 US 47905  
 Contact: Service Manager  
 Jeffrey.Alexander@fuchs.com

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)