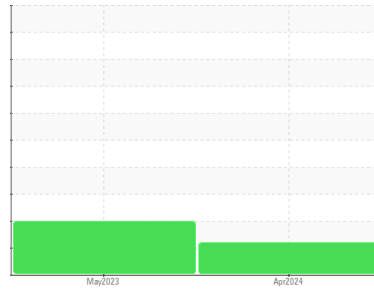




# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Area  
**[3104363]**  
 Machine Id  
**77AY11 (S/N 4001124/20.1)**  
 Component  
**Hydraulic System**  
 Fluid  
**KLUBER KLUBEROIL 4 UH1-68 N (8 GAL)**

### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

#### 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>WC0907799</b>	WC0792586	---
Sample Date	Client Info		<b>03 Apr 2024</b>	09 May 2023	---
Machine Age	days	Client Info	<b>0</b>	0	---
Oil Age	days	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	Filtered	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>&lt;1</b>	3	---
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m >20	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	0	---
Lead	ppm	ASTM D5185m >20	<b>&lt;1</b>	3	---
Copper	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---
Tin	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>0</b>	0	---
Magnesium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Calcium	ppm	ASTM D5185m	<b>5</b>	2	---
Phosphorus	ppm	ASTM D5185m	<b>617</b>	673	---
Zinc	ppm	ASTM D5185m	<b>&lt;1</b>	9	---
Sulfur	ppm	ASTM D5185m	<b>666</b>	725	---

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>11</b>	16	---
Sodium	ppm	ASTM D5185m	<b>0</b>	0	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---
Water	%	ASTM D6304 >0.05	<b>0.001</b>	0.007	---
ppm Water	ppm	ASTM D6304 >500	<b>6</b>	79.1	---

### FLUID CLEANLINESS

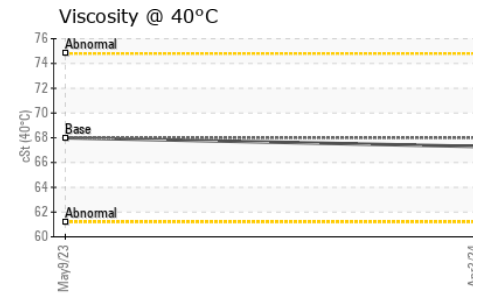
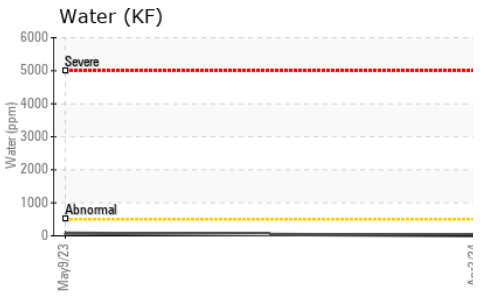
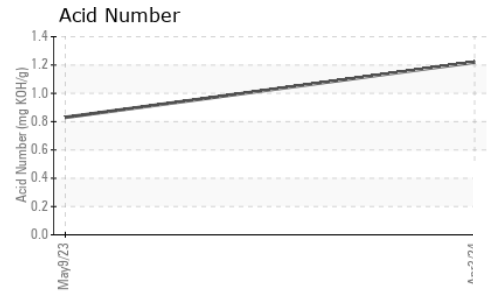
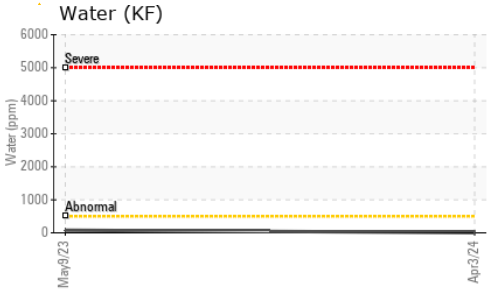
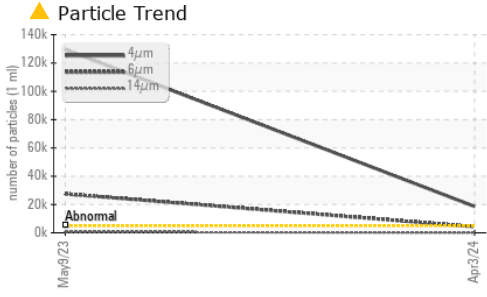
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>▲ 18618</b>	▲ 129471	---
Particles >6µm	ASTM D7647	>1300	<b>▲ 4276</b>	▲ 27447	---
Particles >14µm	ASTM D7647	>160	<b>126</b>	▲ 546	---
Particles >21µm	ASTM D7647	>40	<b>27</b>	▲ 159	---
Particles >38µm	ASTM D7647	>10	<b>1</b>	3	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>▲ 21/19/14</b>	▲ 24/22/16	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.22</b>	0.83	---



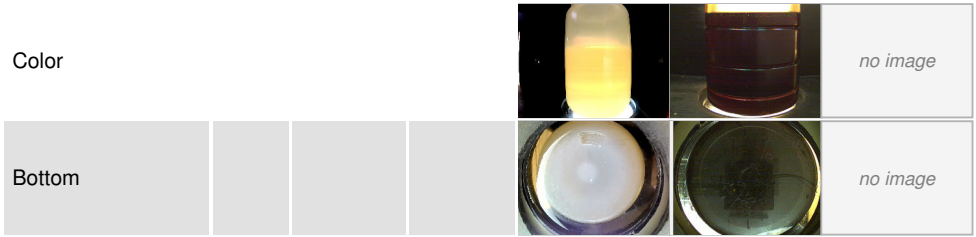
# OIL ANALYSIS REPORT



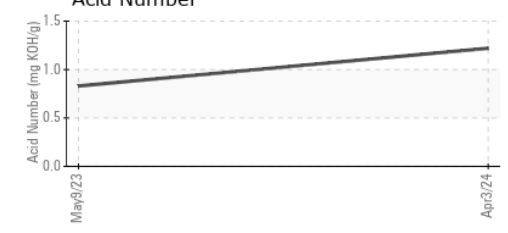
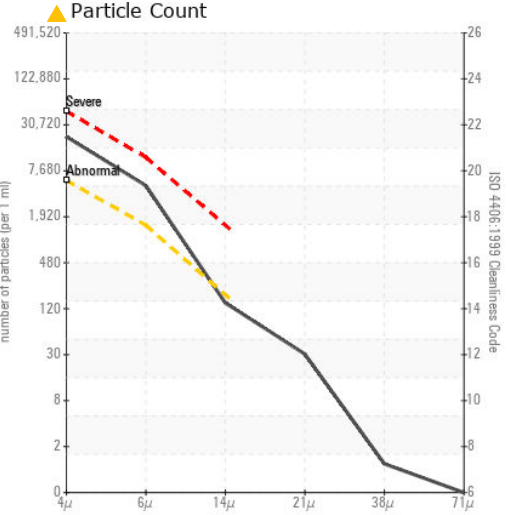
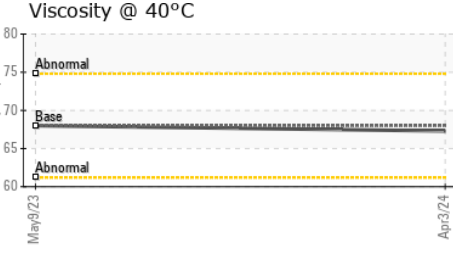
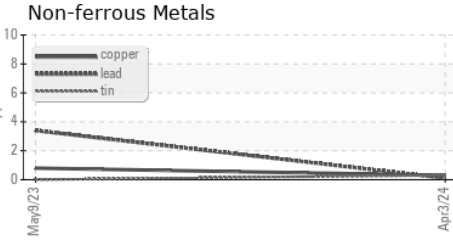
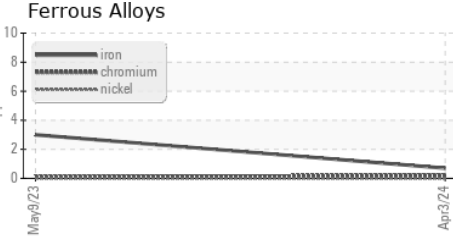
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 68	<b>67.3</b>	68.0	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0907799      **Received** : 04 Apr 2024  
**Lab Number** : **06138535**      **Tested** : 05 Apr 2024  
**Unique Number** : 10963343      **Diagnosed** : 05 Apr 2024 - Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KF )

**GRIFOLS TALECRIS PHARMACEUTICAL**  
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 CLAYTON, NC  
 US 27520  
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 T: (919)359-4362  
 F: (919)359-4767

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)