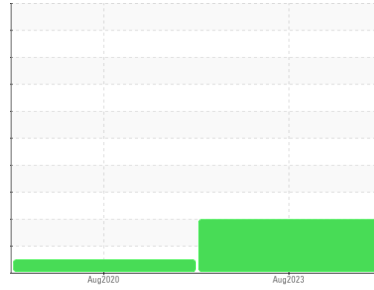




# PROBLEM SUMMARY

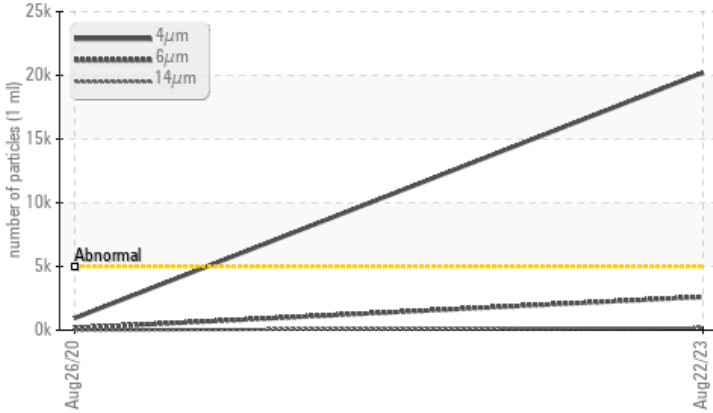
Area  
**[2939437]**  
 Machine Id  
**77AY07**  
 Component  
**Hydraulic System**  
 Fluid  
**KLUBER KLUBEROIL 4 UH1-68 N (--- GAL)**

Sample Rating Trend



## COMPONENT CONDITION SUMMARY

▲ Particle Trend



## RECOMMENDATION

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	---
Particles >4µm	ASTM D7647	>5000	▲ 20215	942	---
Particles >6µm	ASTM D7647	>1300	▲ 2608	171	---
Particles >14µm	ASTM D7647	>160	▲ 181	6	---
Particles >21µm	ASTM D7647	>40	▲ 65	2	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 22/19/15	17/15/10	---

Customer Id: TALCLA  
 Sample No.: WC0840218  
 Lab Number: 05932791  
 Test Package: IND 2



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
Resample	---	---	?	We recommend an early resample to monitor this condition.
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## HISTORICAL DIAGNOSIS

**26 Aug 2020 Diag: Don Baldrige**

**NORMAL**



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

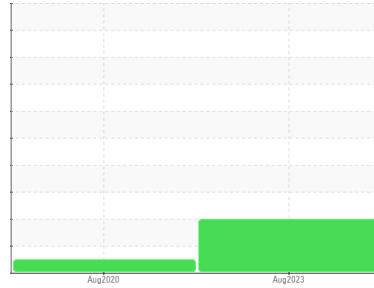
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**[2939437]**  
 Machine Id  
**77AY07**

Component  
**Hydraulic System**  
 Fluid

**KLUBER KLUBEROIL 4 UH1-68 N (--- GAL)**

## DIAGNOSIS

### Recommendation

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### 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>WC0840218</b>	WC0483624	---
Sample Date	Client Info		<b>22 Aug 2023</b>	26 Aug 2020	---
Machine Age	days	Client Info	<b>0</b>	20260	---
Oil Age	days	Client Info	<b>0</b>	20260	---
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	---
Sample Status			<b>ABNORMAL</b>	NORMAL	---

## WEAR METALS

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

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	4	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	<b>2</b>	0	---
Calcium	ppm	ASTM D5185m	<b>&lt;1</b>	4	---
Phosphorus	ppm	ASTM D5185m	<b>621</b>	619	---
Zinc	ppm	ASTM D5185m	<b>4</b>	8	---
Sulfur	ppm	ASTM D5185m	<b>869</b>	645	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>6</b>	14	---
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---
Water	%	ASTM D6304 >0.05	<b>0.00</b>	0.004	---
ppm Water	ppm	ASTM D6304 >500	<b>0.00</b>	44.9	---

## FLUID CLEANLINESS

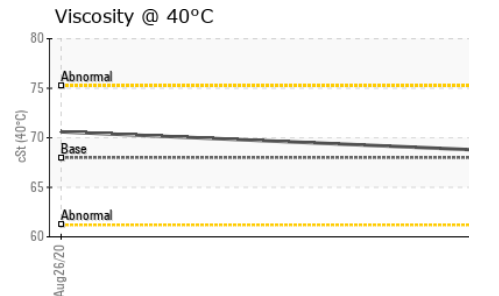
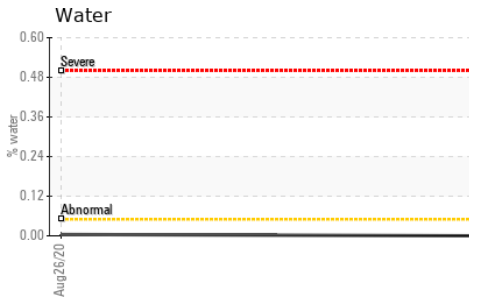
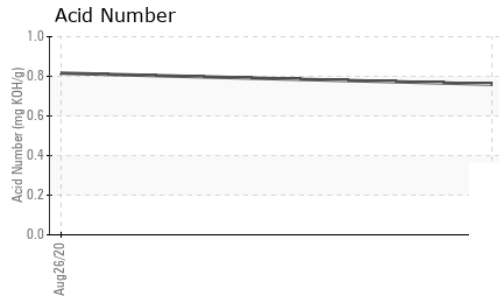
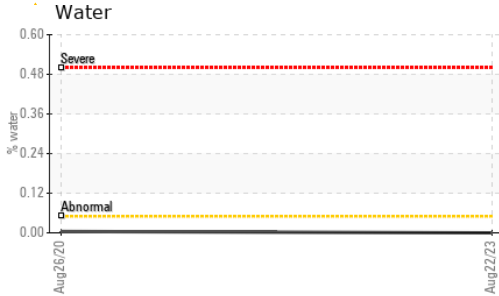
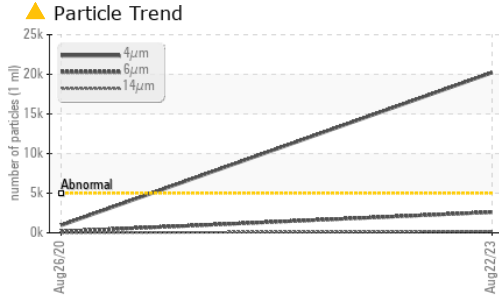
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>▲ 20215</b>	942	---
Particles >6µm	ASTM D7647	>1300	<b>▲ 2608</b>	171	---
Particles >14µm	ASTM D7647	>160	<b>▲ 181</b>	6	---
Particles >21µm	ASTM D7647	>40	<b>▲ 65</b>	2	---
Particles >38µm	ASTM D7647	>10	<b>9</b>	0	---
Particles >71µm	ASTM D7647	>3	<b>2</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>▲ 22/19/15</b>	17/15/10	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.76</b>	0.816	---



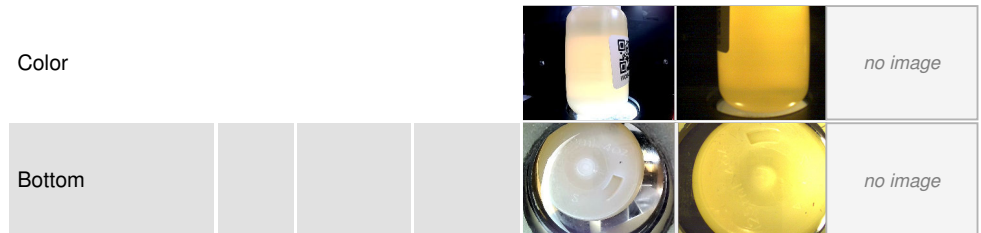
# OIL ANALYSIS REPORT



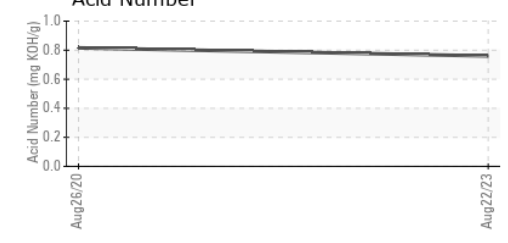
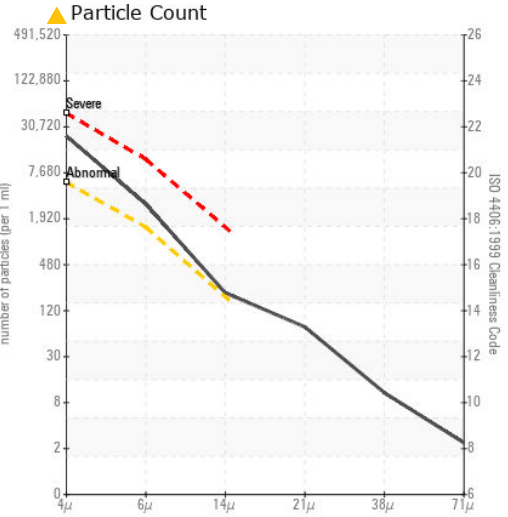
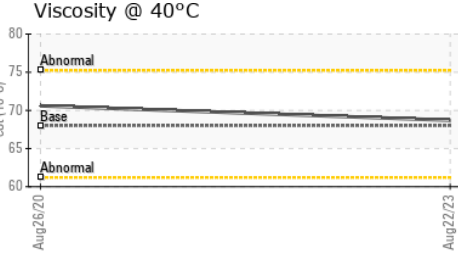
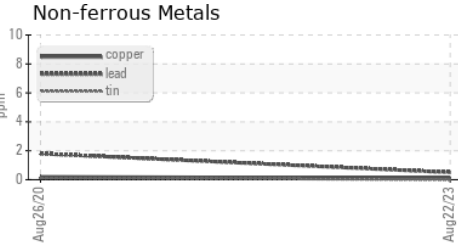
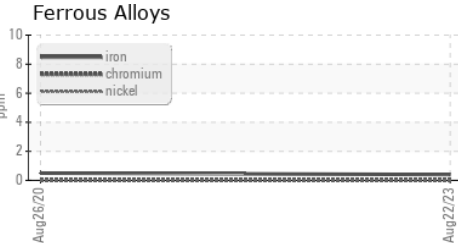
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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>68.7</b>	70.6	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0840218 **Received** : 23 Aug 2023  
**Lab Number** : **05932791** **Diagnosed** : 24 Aug 2023  
**Unique Number** : 10618062 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KF )

**GRIFOLS TALECRIS PHARMACEUTICAL**  
 8368 US 70 WEST  
 CLAYTON, NC  
 US 27520  
 Contact: KEN TERRY  
 kenneth.terry@grifols.com  
 T: (919)359-4362  
 F: (919)359-4767

Certificate L2367  
 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)