



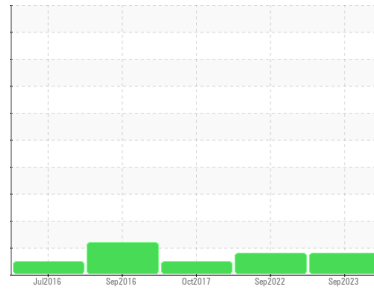
# PROBLEM SUMMARY

Area  
**FINISHING**  
Machine Id  
**1215HP01**

Component  
**Hydraulic System**

Fluid  
**KLUBER SUMMIT HYSYN FG 46 (--- GAL)**

Sample Rating Trend

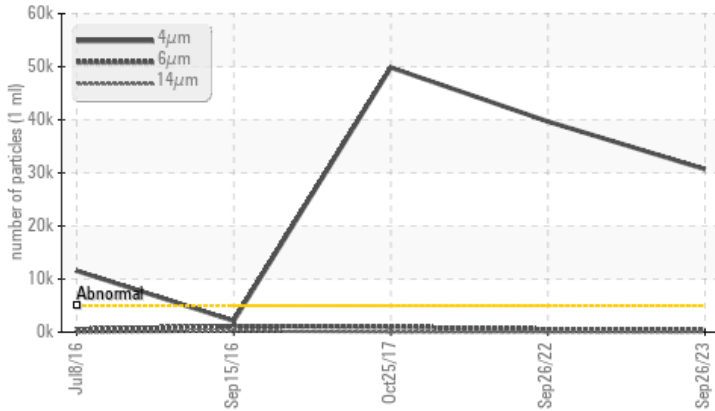


ISO



## COMPONENT CONDITION SUMMARY

▲ Particle Trend



## RECOMMENDATION

No corrective action is recommended at this time.  
Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status		<b>ABNORMAL</b>	ABNORMAL	NORMAL
Particles >4µm	ASTM D7647 >5000	▲ <b>30687</b>	▲ 39680	49848
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ <b>22/16/12</b>	▲ 22/16/11	23/17/12

Customer Id: FLAMONNC  
Sample No.: WC0806872  
Lab Number: 06027726  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 26 Sep 2022 Diag: Jonathan Hester

ISO



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 25 Oct 2017 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 is acceptable. There is no indication of any contamination in the component. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 15 Sep 2016 Diag: Doug Bogart

ISO



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

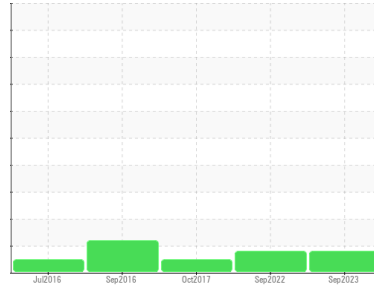
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**FINISHING**  
 Machine Id  
**1215HP01**

Component  
**Hydraulic System**  
 Fluid

**KLUBER SUMMIT HYSYN FG 46 (--- GAL)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 6 microns in size) present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0806872</b>	WC0668033	WCI2319558
Sample Date	Client Info		<b>26 Sep 2023</b>	26 Sep 2022	25 Oct 2017
Machine Age	yrs	Client Info	<b>0</b>	0	6
Oil Age	yrs	Client Info	<b>0</b>	0	3
Oil Changed	Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status			<b>ABNORMAL</b>	ABNORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>13</b>	---	---
Iron	ppm	ASTM D5185m >20	<b>15</b>	13	8
Chromium	ppm	ASTM D5185m >20	<b>6</b>	5	2
Nickel	ppm	ASTM D5185m >20	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	<1	<1
Lead	ppm	ASTM D5185m >20	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >20	<b>5</b>	4	2
Tin	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	<1
Barium	ppm	ASTM D5185m	<b>5</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>2</b>	2	<1
Calcium	ppm	ASTM D5185m	<b>112</b>	118	97
Phosphorus	ppm	ASTM D5185m	<b>469</b>	449	368
Zinc	ppm	ASTM D5185m	<b>615</b>	621	553
Sulfur	ppm	ASTM D5185m	<b>7423</b>	7434	5592

## CONTAMINANTS

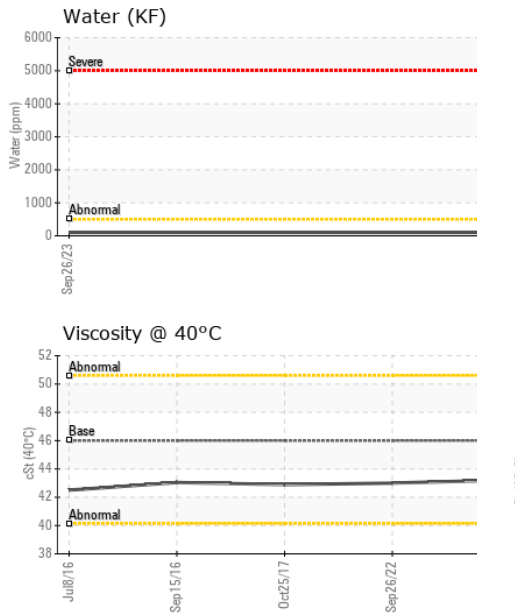
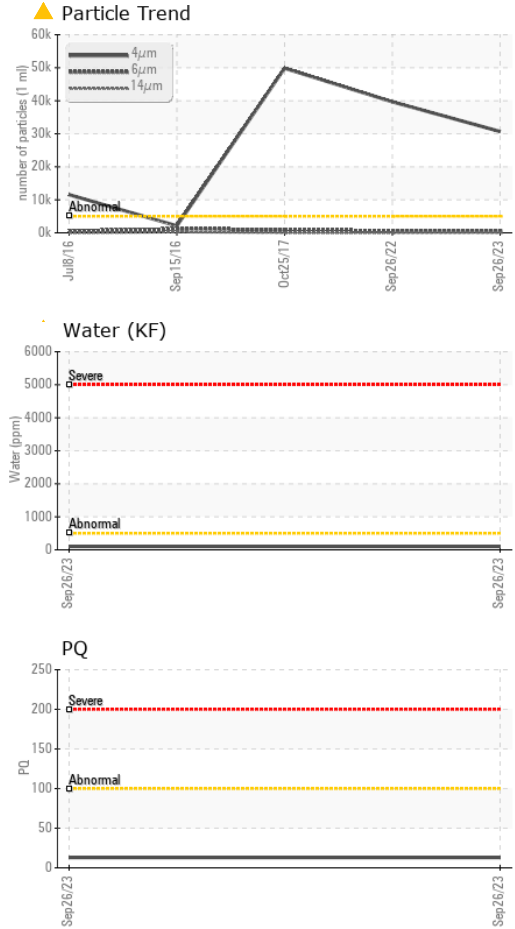
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>1</b>	<1	1
Sodium	ppm	ASTM D5185m	<b>0</b>	1	<1
Potassium	ppm	ASTM D5185m >20	<b>2</b>	0	0
Water	%	ASTM D6304 >0.05	<b>0.010</b>	---	---
ppm Water	ppm	ASTM D6304 >500	<b>102</b>	---	---

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>▲ 30687</b>	▲ 39680	49848
Particles >6µm	ASTM D7647	>1300	<b>550</b>	546	975
Particles >14µm	ASTM D7647	>160	<b>30</b>	19	31
Particles >21µm	ASTM D7647	>40	<b>8</b>	6	13
Particles >38µm	ASTM D7647	>10	<b>0</b>	1	4
Particles >71µm	ASTM D7647	>3	<b>0</b>	1	4
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>▲ 22/16/12</b>	▲ 22/16/11	23/17/12



# OIL ANALYSIS REPORT

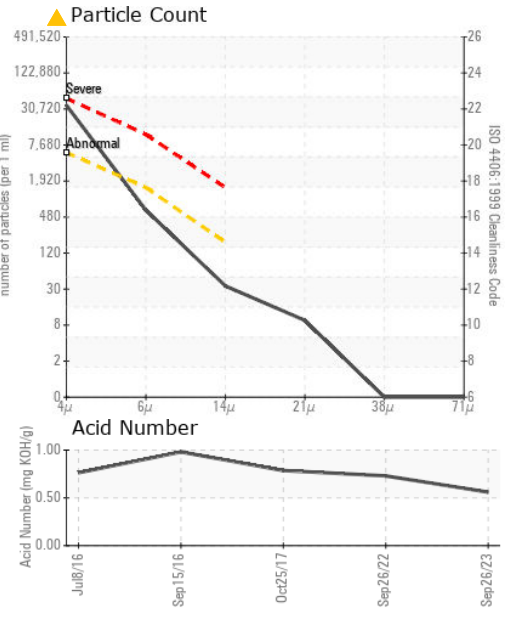
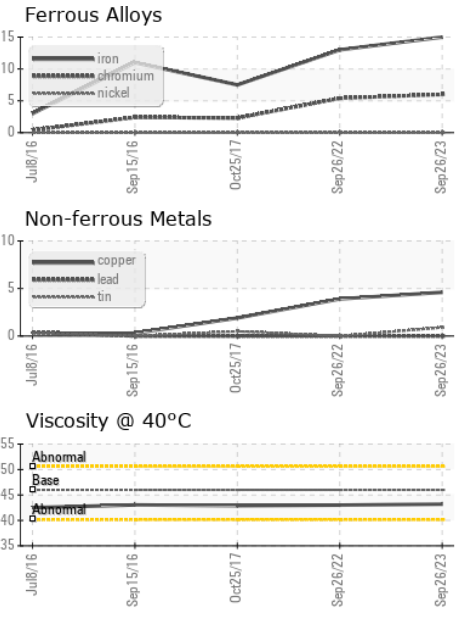


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.56</b>	0.73	0.786
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	<b>43.2</b>	43.0	42.89

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0806872 **Received** : 07 Dec 2023  
**Lab Number** : **06027726** **Diagnosed** : 08 Dec 2023  
**Unique Number** : 10777517 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: KF, PQ )

**ARAUCO FLAKEBOARD - MDF**  
 985 CORINTH RD  
 MONCURE, NC  
 US  
 Contact: CHRISTOPHER JACKSON  
 christopher.jackson@arauco.com

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)