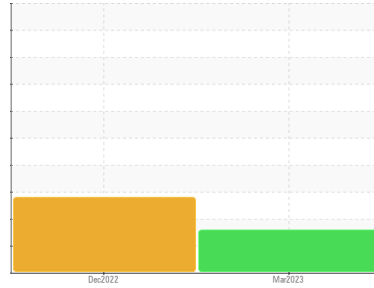




PROBLEM SUMMARY

Sample Rating Trend



WEAR



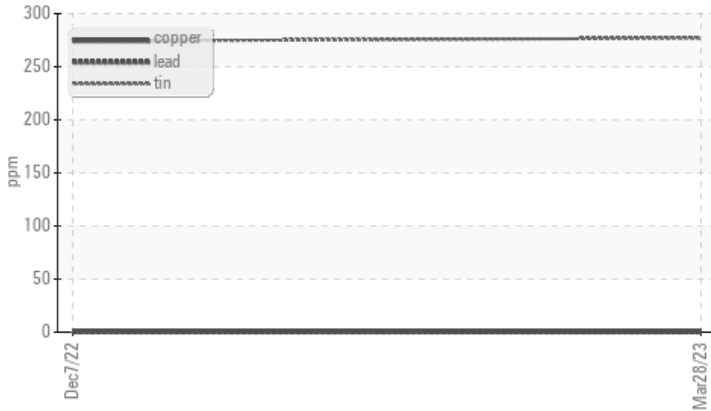
Machine Id
AF01-0821PP01-C

Component
Hydraulic System

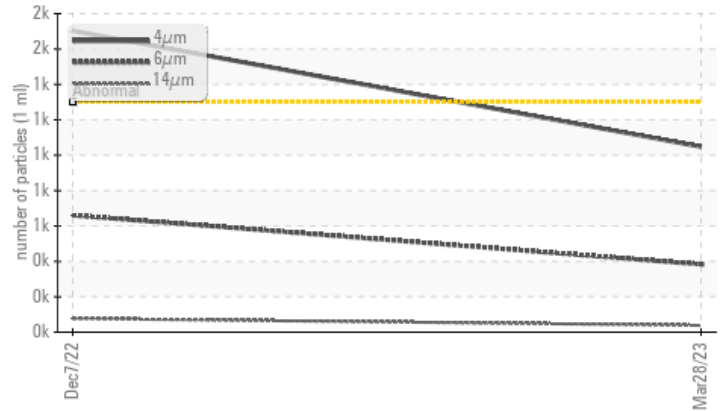
Fluid
KLUBER SUMMIT HYSYN FG 46 (500 GAL)

COMPONENT CONDITION SUMMARY

▲ Non-ferrous Metals



▲ Particle Trend



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	ABNORMAL	---
Tin	ppm	ASTM D5185m	>20	▲ 277	▲ 274	---
Particles >6µm		ASTM D7647	>320	▲ 383	▲ 660	---
Oil Cleanliness		ISO 4406 (c)	>17/15/12	▲ 17/16/12	▲ 18/17/13	---

Customer Id: FLAMONNC
Sample No.: WC0761391
Lab Number: 05806193
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

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

07 Dec 2022 Diag: Don Baldrige

WEAR



We recommend you service the filters on this component. Resample at the next service interval to monitor. Tin level is noted as an additive. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid.

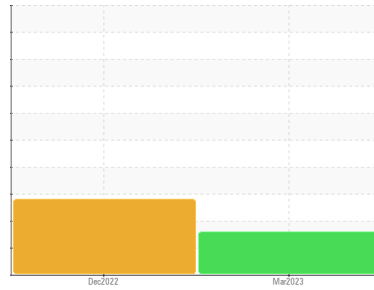
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
AF01-0821PP01-C

Component
Hydraulic System

Fluid
KLUBER SUMMIT HYSYN FG 46 (500 GAL)

DIAGNOSIS

▲ Recommendation

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

▲ Wear

The tin level is abnormal. All other component wear rates are normal.

▲ Contamination

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

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0761391	WC0764199	---
Sample Date	Client Info		28 Mar 2023	07 Dec 2022	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		Not Changed	N/A	---
Sample Status			ATTENTION	ABNORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		25	14	---
Iron	ppm	ASTM D5185m >20	2	2	---
Chromium	ppm	ASTM D5185m >20	0	0	---
Nickel	ppm	ASTM D5185m >20	<1	0	---
Titanium	ppm	ASTM D5185m	0	0	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >20	<1	0	---
Lead	ppm	ASTM D5185m >20	<1	<1	---
Copper	ppm	ASTM D5185m >20	<1	<1	---
Tin	ppm	ASTM D5185m >20	▲ 277	▲ 274	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	---
Barium	ppm	ASTM D5185m	0	1	---
Molybdenum	ppm	ASTM D5185m	0	0	---
Manganese	ppm	ASTM D5185m	0	0	---
Magnesium	ppm	ASTM D5185m	0	<1	---
Calcium	ppm	ASTM D5185m	0	<1	---
Phosphorus	ppm	ASTM D5185m	172	186	---
Zinc	ppm	ASTM D5185m	14	13	---
Sulfur	ppm	ASTM D5185m	788	772	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	3	3	---
Sodium	ppm	ASTM D5185m	0	0	---
Potassium	ppm	ASTM D5185m >20	<1	<1	---
Water	%	ASTM D6304 >0.05	0.033	0.026	---
ppm Water	ppm	ASTM D6304 >500	336.7	261.6	---

FLUID CLEANLINESS

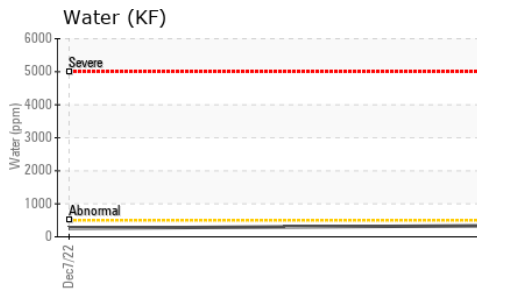
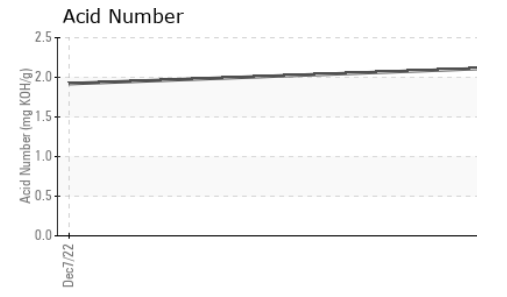
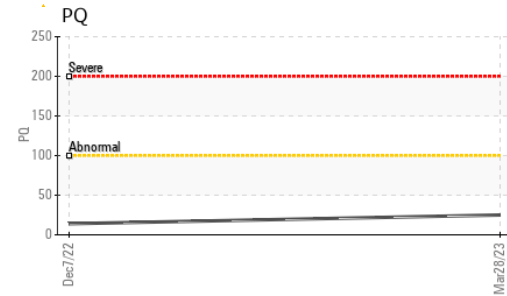
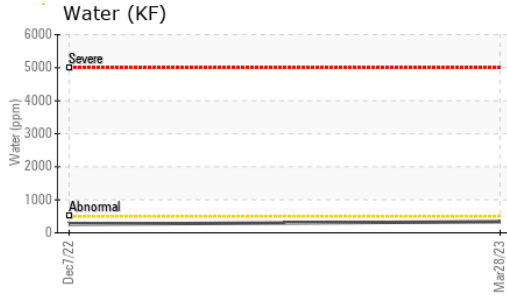
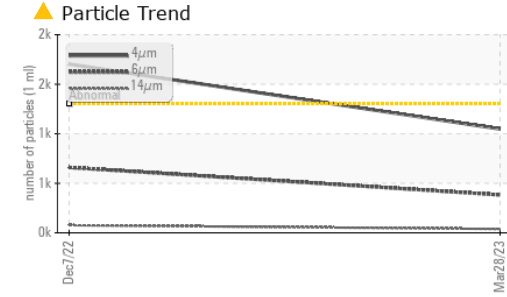
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>1300	1048	▲ 1703	---
Particles >6µm	ASTM D7647	>320	▲ 383	▲ 660	---
Particles >14µm	ASTM D7647	>40	38	▲ 77	---
Particles >21µm	ASTM D7647	>10	11	▲ 13	---
Particles >38µm	ASTM D7647	>3	0	0	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>17/15/12	▲ 17/16/12	▲ 18/17/13	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.12	1.92	---



OIL ANALYSIS REPORT



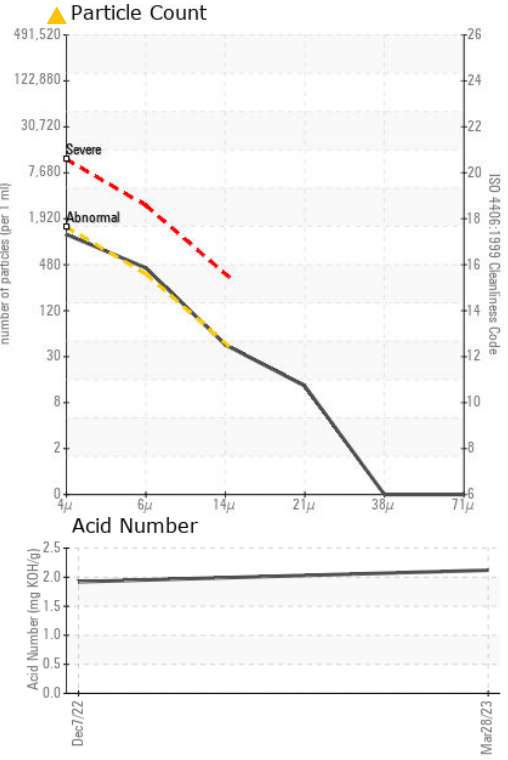
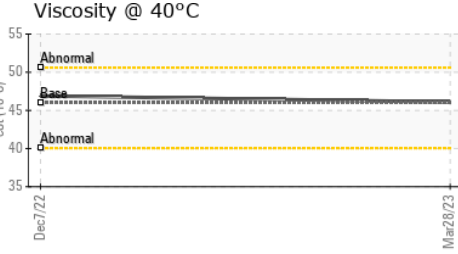
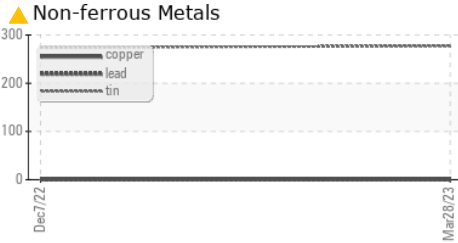
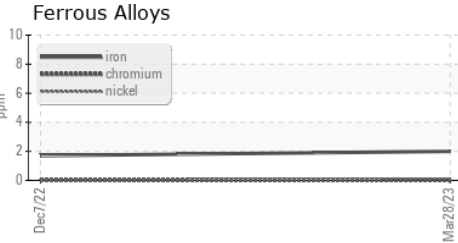
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	46	46.9	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0761391 **Received** : 30 Mar 2023
Lab Number : 05806193 **Diagnosed** : 11 Apr 2023
Unique Number : 10403722 **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)