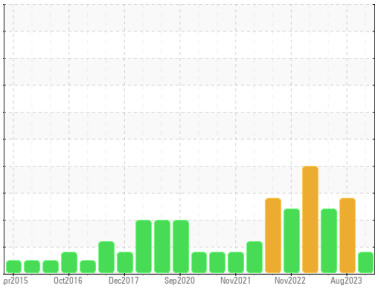
PROBLEM SUMMARY

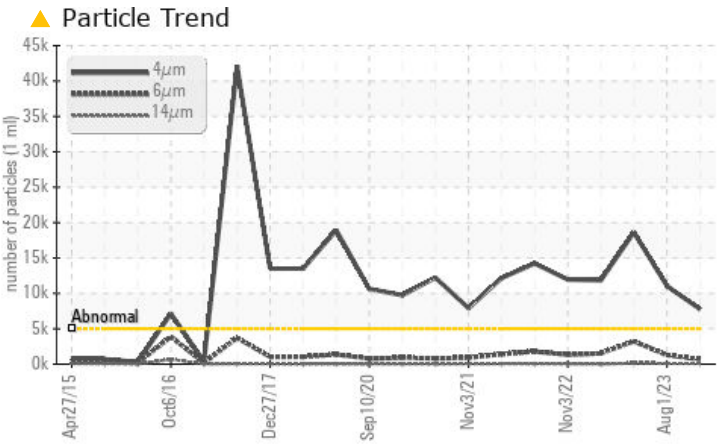
Area
REFINER
Machine Id
0225SC01
Component
Gearbox
Fluid
KLUBER Klübersynth GH 6 460 (50 GAL)

Sample Rating Trend



ISO

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				**ATTENTION**	ABNORMAL	ABNORMAL
Particles >4µm		ASTM D7647	>5000	▲ **7759**	▲ 11044	▲ 18620
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **20/17/14**	▲ 21/17/14	▲ 21/19/14

Customer Id: FLAMONNC
Sample No.: WC0842400
Lab Number: 06027734
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

01 Aug 2023 Diag: Don Baldridge

WATER

We advise that you check for the source of water entry. We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a moderate concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report

04 May 2023 Diag: Don Baldridge

DEGRADATION

The oil is near the end of it`s useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is at the top-end of the recommended limit.

view report

31 Jan 2023 Diag: Don Baldridge

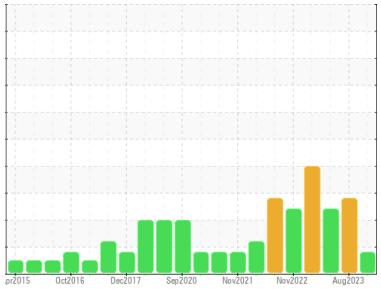
WATER

The oil is near the end of it`s useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a light concentration of water present in the oil. The AN level is at the top-end of the recommended limit.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



ISO

Area
REFINER
Machine Id
0225SC01
Component
Gearbox
Fluid
KLUBER Klübersynth GH 6 460 (50 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 moderate 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		**WC0842400**	WC0806866	WC0730503
Sample Date		Client Info		**30 Oct 2023**	01 Aug 2023	04 May 2023
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	Not Changd	Not Changd
Sample Status				**ATTENTION**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**39**	28	---
Iron	ppm	ASTM D5185m	>200	**<1**	1	<1
Chromium	ppm	ASTM D5185m	>15	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>15	**0**	0	<1
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**3**	<1	0
Lead	ppm	ASTM D5185m	>100	**0**	0	0
Copper	ppm	ASTM D5185m	>200	**<1**	<1	0
Tin	ppm	ASTM D5185m	>25	**0**	0	0
Vanadium	ppm	ASTM D5185m		**<1**	<1	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**2**	<1	0
Barium	ppm	ASTM D5185m		**5**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	0
Magnesium	ppm	ASTM D5185m		**<1**	<1	<1
Calcium	ppm	ASTM D5185m		**0**	1	0
Phosphorus	ppm	ASTM D5185m		**2186**	1976	1925
Zinc	ppm	ASTM D5185m		**16**	14	14
Sulfur	ppm	ASTM D5185m		**0**	2	129

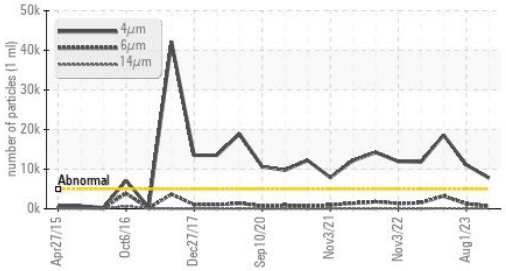
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**23**	26	25
Sodium	ppm	ASTM D5185m		**7**	6	2
Potassium	ppm	ASTM D5185m	>20	**3**	<1	0
Water	%	ASTM D6304	>0.2	**0.00**	▲ 0.514	---
ppm Water	ppm	ASTM D6304	>2000	**0**	▲ 5143.6	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ **7759**	▲ 11044	▲ 18620
Particles >6µm		ASTM D7647	>1300	**669**	▲ 1279	▲ 3216
Particles >14µm		ASTM D7647	>160	**91**	94	135
Particles >21µm		ASTM D7647	>40	**29**	27	34
Particles >38µm		ASTM D7647	>10	**2**	1	1
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ **20/17/14**	▲ 21/17/14	▲ 21/19/14

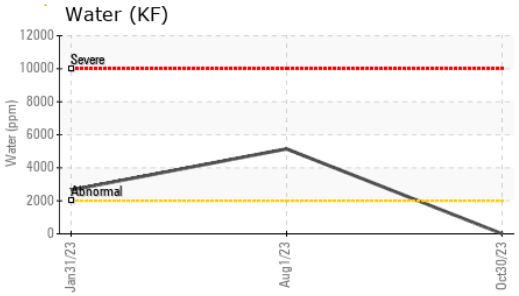
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**3.01**	2.86	▲ 3.01

OIL ANALYSIS REPORT

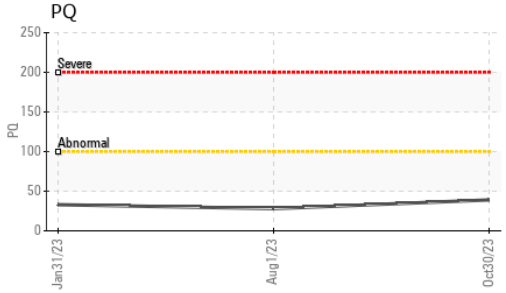
Particle Trend



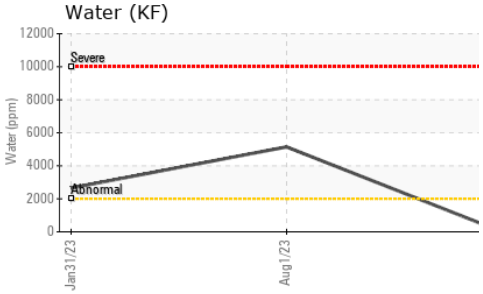
Water (KF)



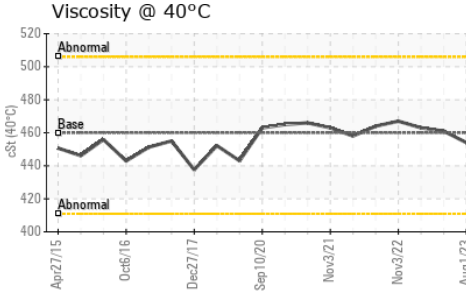
PQ



Water (KF)

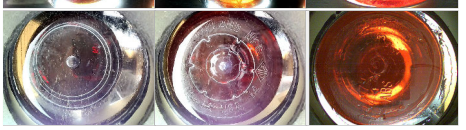


Viscosity @ 40°C



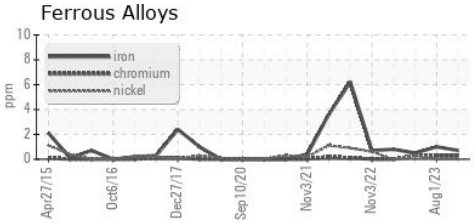
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	460	**451**	454	461

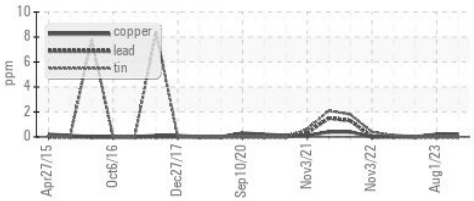
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

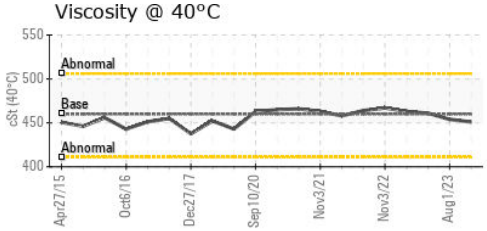
Ferrous Alloys



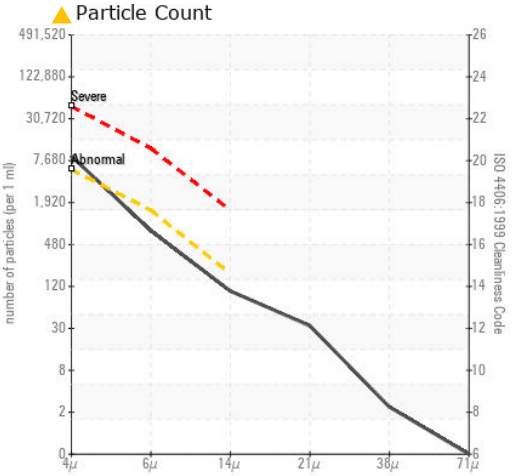
Non-ferrous Metals



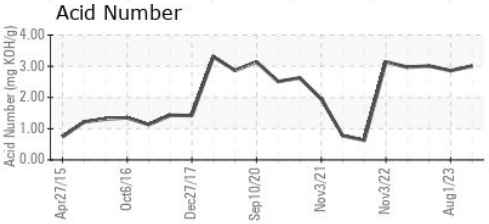
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0842400 **Received** : 07 Dec 2023
Lab Number : 06027734 **Diagnosed** : 08 Dec 2023
Unique Number : 10777525 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PQ, PrtCount)

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)

ARAUCO FLAKEBOARD - MDF
985 CORINTH RD
MONCURE, NC
US
Contact: JAMES WALTON
james.walton@arauco.com
T: (919)642-6696
F: