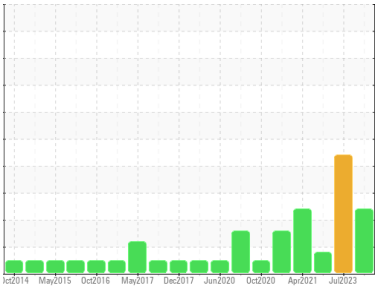
PROBLEM SUMMARY

Sample Rating Trend

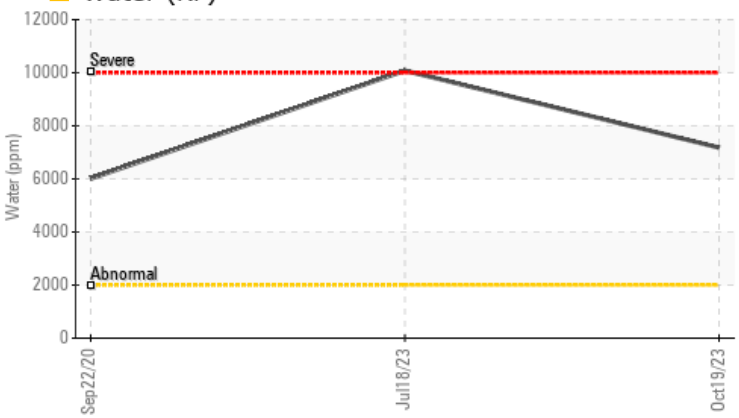


WATER

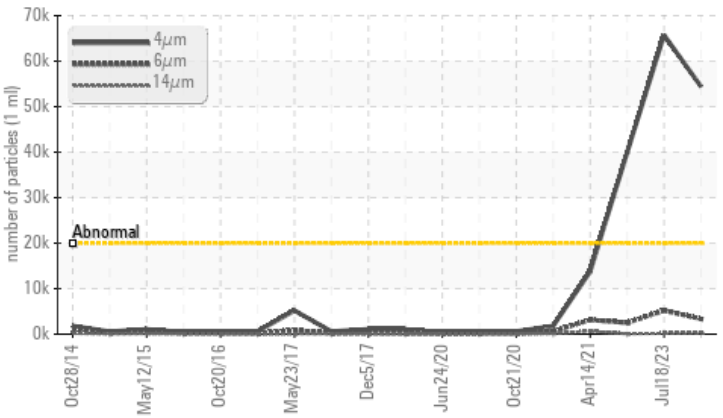
Area
PRE PRESS
Machine Id
0720 PR02
Component
Lower Gearbox
Fluid
KLUBER Klübersynth GH 6 ISO 320 (50 LTR)

COMPONENT CONDITION SUMMARY

Water (KF)



Particle Trend



RECOMMENDATION

We advise that you check for the source of water entry. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	SEVERE	ATTENTION
Water	%	ASTM D6304	>0.2	**0.717**	1.008	---
ppm Water	ppm	ASTM D6304	>2000	**7178**	10080.9	---
Particles >4µm		ASTM D7647	>20000	**54416**	65735	39865
Oil Cleanliness		ISO 4406 (c)	>21/19/16	**23/19/15**	23/20/15	22/18/13

Customer Id: FLAMONNC
Sample No.: WC0806873
Lab Number: 06027731
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

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

18 Jul 2023 Diag: Don Baldridge

WATER

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. 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 high 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

20 Apr 2023 Diag: Wes Davis

ISO

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a light amount of silt (particulates < 14 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

14 Apr 2021 Diag: Jonathan Hester

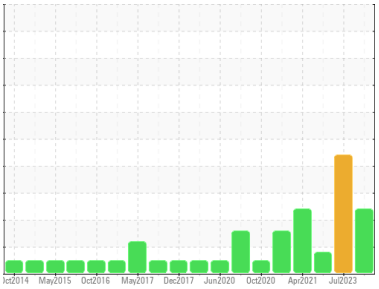
ISO

The 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 high 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



WATER

Area
PRE PRESS
Machine Id
0720 PR02
Component
Lower Gearbox
Fluid
KLUBER Klübersynth GH 6 ISO 320 (50 LTR)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend you service the filters on this component if applicable. 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. There is a moderate concentration of water 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		**WC0806873**	WC0806864	WC0730514
Sample Date		Client Info		**19 Oct 2023**	18 Jul 2023	20 Apr 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				**ABNORMAL**	SEVERE	ATTENTION

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**39**	39	---
Iron	ppm	ASTM D5185m	>200	**25**	7	6
Chromium	ppm	ASTM D5185m	>15	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>15	**<1**	0	<1
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**5**	<1	0
Lead	ppm	ASTM D5185m	>100	**0**	0	0
Copper	ppm	ASTM D5185m	>200	**<1**	<1	0
Tin	ppm	ASTM D5185m	>25	**<1**	0	0
Antimony	ppm	ASTM D5185m	>5	**---**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	<1	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

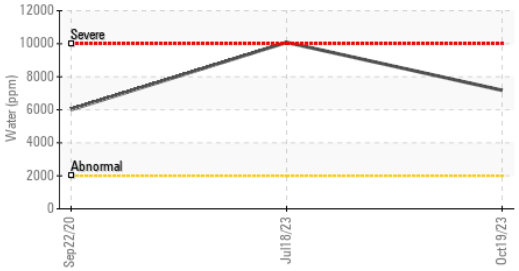
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**10**	1	0
Barium	ppm	ASTM D5185m		**5**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**<1**	0	0
Magnesium	ppm	ASTM D5185m		**2**	<1	<1
Calcium	ppm	ASTM D5185m		**9**	2	1
Phosphorus	ppm	ASTM D5185m	2450	**2750**	1817	1855
Zinc	ppm	ASTM D5185m		**124**	35	33
Sulfur	ppm	ASTM D5185m		**59**	50	41

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**23**	17	21
Sodium	ppm	ASTM D5185m		**17**	5	3
Potassium	ppm	ASTM D5185m	>20	**5**	<1	<1
Water	%	ASTM D6304	>0.2	▲ **0.717**	⬢ 1.008	---
ppm Water	ppm	ASTM D6304	>2000	▲ **7178**	⬢ 10080.9	---

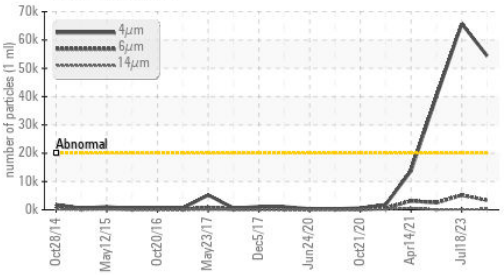
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ **54416**	▲ 65735	▲ 39865
Particles >6µm		ASTM D7647	>5000	**3340**	▲ 5200	2499
Particles >14µm		ASTM D7647	>640	**216**	180	73
Particles >21µm		ASTM D7647	>160	**93**	55	25
Particles >38µm		ASTM D7647	>40	**6**	3	1
Particles >71µm		ASTM D7647	>10	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ **23/19/15**	▲ 23/20/15	▲ 22/18/13

OIL ANALYSIS REPORT

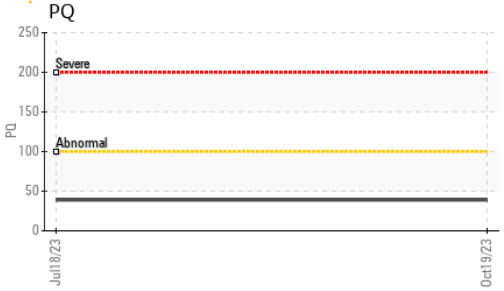
Water (KF)



Particle Trend



PQ

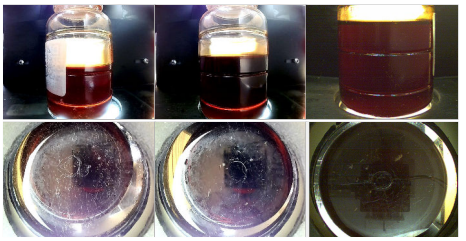


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.955	**3.07**	3.11	1.38

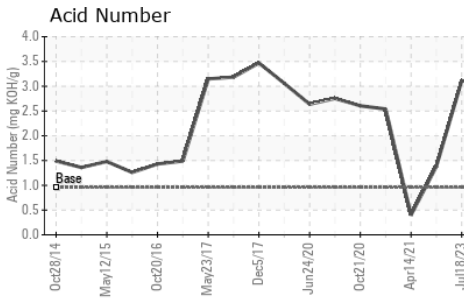
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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	336.9	**368**	345	341

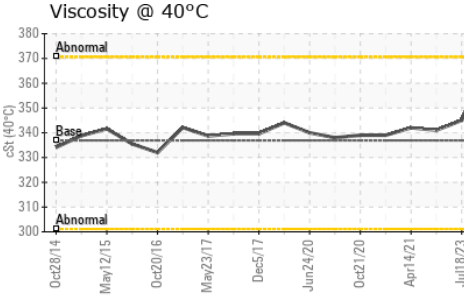
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



Acid Number

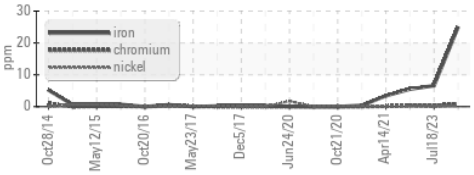


Viscosity @ 40°C

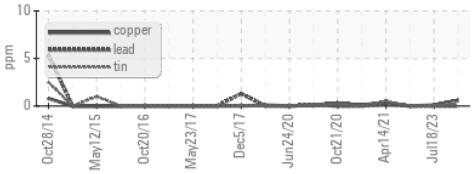


GRAPHS

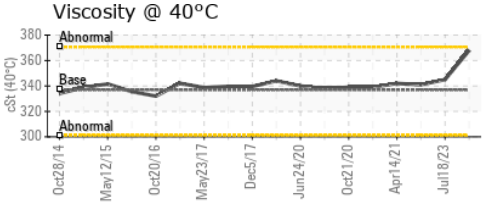
Ferrous Alloys



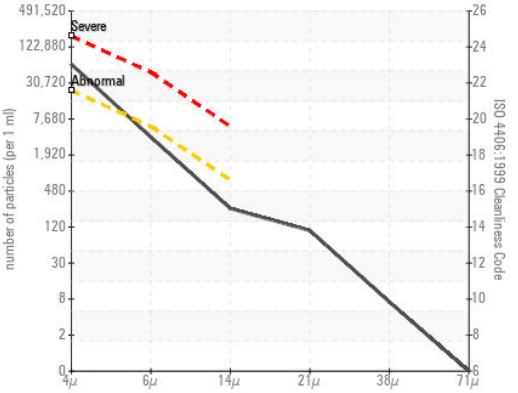
Non-ferrous Metals



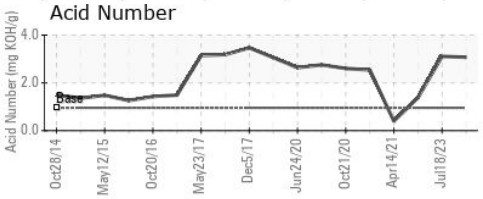
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0806873 **Received** : 07 Dec 2023
Lab Number : 06027731 **Diagnosed** : 08 Dec 2023
Unique Number : 10777522 **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)

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