

# **PROBLEM SUMMARY**

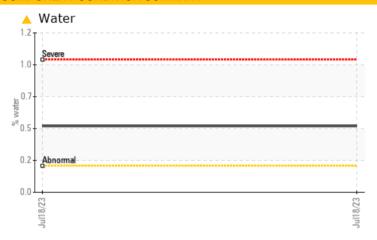
PRESS 0809SB01

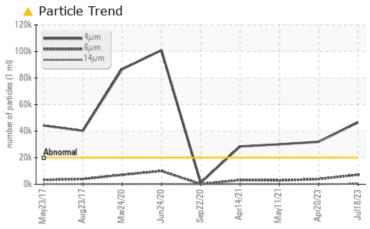
Component **Front Gearbox** 

KLUBER Klübersynth GH 6 ISO 320 (--- LTR)

# Sample Rating Trend **WATER**

# **COMPONENT CONDITION SUMMARY**





# RECOMMENDATION

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL	ATTENTION	SEVERE			
Water	%	ASTM D6304	>0.2	<b>△</b> 0.498					
ppm Water	ppm	ASTM D6304	>2000	<b>4986.5</b>					
Particles >4µm		ASTM D7647	>20000	<b>46519</b>	<b>△</b> 31992	● 30080			
Particles >6µm		ASTM D7647	>5000	<u> </u>	3886	<u> </u>			
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>23/20/16</b>	<u>^</u> 22/19/14	22/19/14			

Customer Id: FLAMONNC **Sample No.:** WC0668039 Lab Number: 05930872 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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

# **RECOMMENDED ACTIONS**

Action	Status	Date	Done By	Description
Resample			?	We recommend an early resample to monitor this condition.
Check Water Access			?	We advise that you check for the source of water entry.

## HISTORICAL DIAGNOSIS

## 20 Apr 2023 Diag: Wes Davis

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.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.



## ISO



## 11 May 2021 Diag: Wes Davis

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. Particles >4µm are severely high. Particles >6µm are abnormally high. Particles >14µm are notably high. Particles >21µm are notably high. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. Particles >4 $\mu$ m are severely high. Particles >6 $\mu$ m are abnormally high. Particles >14 $\mu$ m are abnormally high. Particles >21 $\mu$ m are abnormally high. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

# Sample Rating Trend







# PRESS Machine Id 0809SB01

Component

**Front Gearbox** 

KLUBER Klübersynth GH 6 ISO 320 (--- LTR)

# DIAGNOSIS

# Recommendation

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

# Contamination

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.

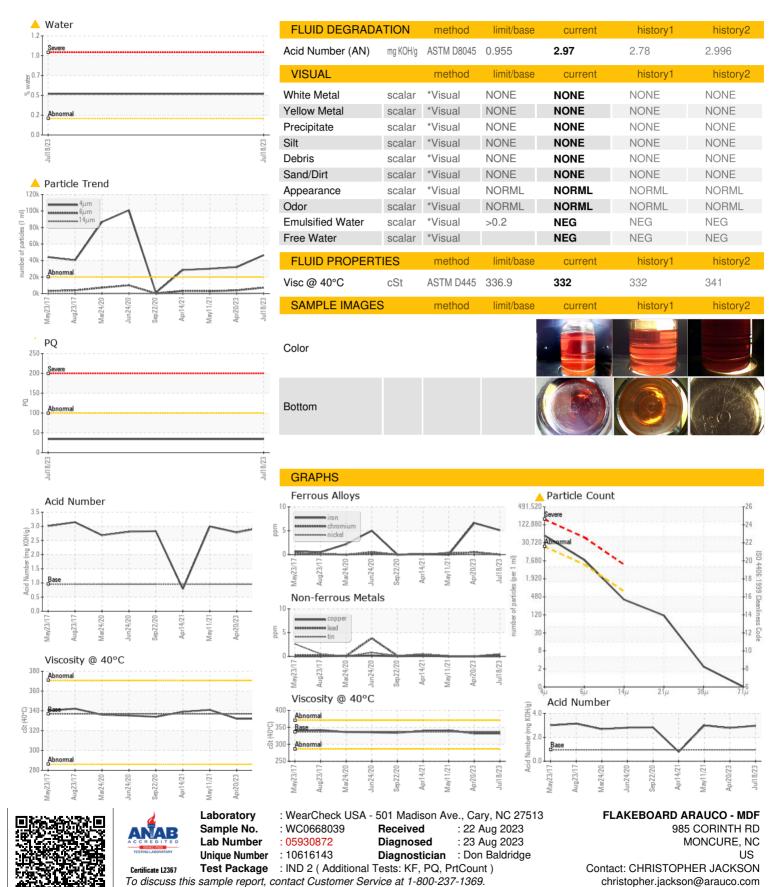
## **Fluid Condition**

The AN level is at the top-end of the recommended limit.

R)		May2017 Au	2017 Mar2020 Jun2020	Sep2020 Apr2021 May2021 Apr20	23 Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0668039	WC0730482	WC0541838
Sample Date		Client Info		18 Jul 2023	20 Apr 2023	11 May 2021
Machine Age	hrs	Client Info		0	0	80000
Oil Age	hrs	Client Info		0	0	4000
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ABNORMAL	ATTENTION	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		34		
Iron	ppm	ASTM D5185m	>200	5	7	0
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	<1	0	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	0
Tin	ppm	ASTM D5185m	>25	<1	0	<1
Antimony	ppm	ASTM D5185m	>5			0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	0	8
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		3	<1	0
Calcium	ppm	ASTM D5185m		2	<1	0
Phosphorus	ppm	ASTM D5185m	2450	2547	2404	1580
Zinc	ppm	ASTM D5185m		15	19	1
Sulfur	ppm	ASTM D5185m		38	0	0
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	33	46	31
Sodium	ppm	ASTM D5185m		0	5	2
Potassium	ppm	ASTM D5185m	>20	4	0	0
Water	%	ASTM D6304	>0.2	<u> </u>		
ppm Water	ppm	ASTM D6304	>2000	<b>4986.5</b>		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>46519</b>	<b>▲</b> 31992	30080
Particles >6µm		ASTM D7647	>5000	<u> 7117</u>	3886	▲ 2849
Particles >14µm		ASTM D7647	>640	340	107	<b>▲</b> 117
Particles >21µm		ASTM D7647	>160	101	24	<b>▲</b> 38
Particles >38µm		ASTM D7647	>40	2	1	2
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>23/20/16</b>	<u>22/19/14</u>	22/19/14



# **OIL ANALYSIS REPORT**



\* - 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)

T: F: