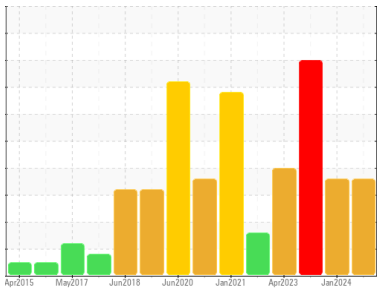
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
PRESS
Machine Id
0809CD02
Component
Gearbox
Fluid
KLUBER Klübersynth GH 6 ISO 320 (6 LTR)

DIAGNOSIS

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

Wear
All component wear rates are normal.

Contamination
There is a high amount of particulates 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 acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0773257**	WC0762936	WC0806886
Sample Date		Client Info		**17 Apr 2024**	24 Jan 2024	18 Jul 2023
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Sample Status				**ABNORMAL**	ABNORMAL	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**46**	35	44
Iron	ppm	ASTM D5185m	>200	**4**	7	11
Chromium	ppm	ASTM D5185m	>15	**0**	<1	<1
Nickel	ppm	ASTM D5185m	>15	**<1**	0	<1
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**<1**	2	1
Lead	ppm	ASTM D5185m	>100	**0**	0	0
Copper	ppm	ASTM D5185m	>200	**0**	0	<1
Tin	ppm	ASTM D5185m	>25	**1**	<1	0
Vanadium	ppm	ASTM D5185m		**0**	<1	<1
Cadmium	ppm	ASTM D5185m		**0**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**1**	3	10
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		**1**	<1	2
Calcium	ppm	ASTM D5185m		**<1**	4	12
Phosphorus	ppm	ASTM D5185m	2450	**2347**	1964	2408
Zinc	ppm	ASTM D5185m		**19**	10	73
Sulfur	ppm	ASTM D5185m		**0**	287	136

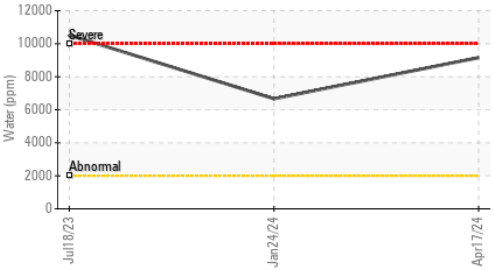
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**49**	35	▲ 75
Sodium	ppm	ASTM D5185m		**0**	5	11
Potassium	ppm	ASTM D5185m	>20	**4**	<1	2
Water	%	ASTM D6304	>0.2	▲ **0.915**	▲ 0.666	▲ 1.052
ppm Water	ppm	ASTM D6304	>2000	▲ **9159**	▲ 6667	▲ 10520.1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	▲ **115030**	▲ 151962	▲ 28103
Particles >6µm		ASTM D7647	>640	▲ **17038**	▲ 29286	▲ 3819
Particles >14µm		ASTM D7647	>80	▲ **233**	▲ 628	▲ 151
Particles >21µm		ASTM D7647	>20	▲ **28**	▲ 110	▲ 36
Particles >38µm		ASTM D7647	>4	**1**	2	1
Particles >71µm		ASTM D7647	>3	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>18/16/13	▲ **24/21/15**	▲ 24/22/16	▲ 22/19/14

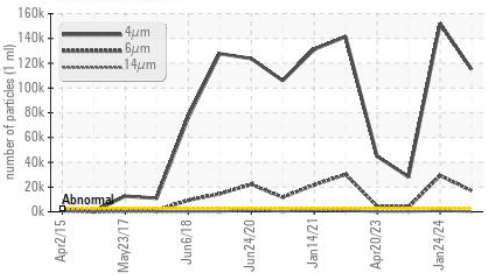
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.955	**3.24**	3.11	▲ 4.27

OIL ANALYSIS REPORT

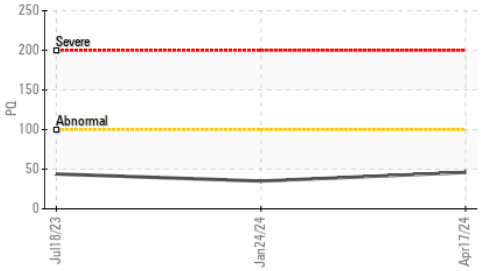
Water (KF)



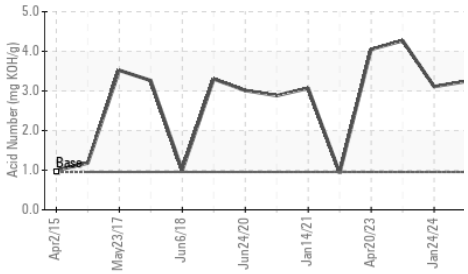
Particle Trend



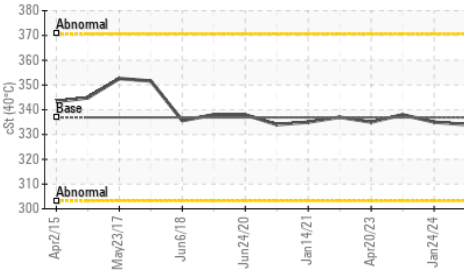
PQ



Acid Number



Viscosity @ 40°C



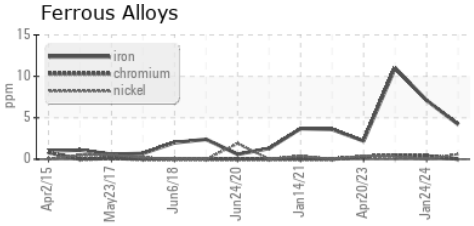
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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	336.9	**334**	335	338

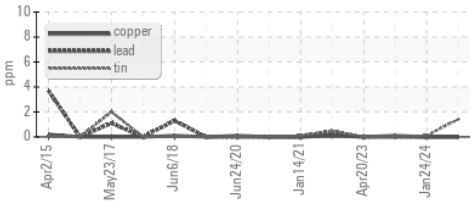
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

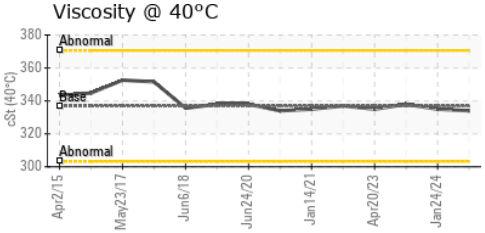
Ferrous Alloys



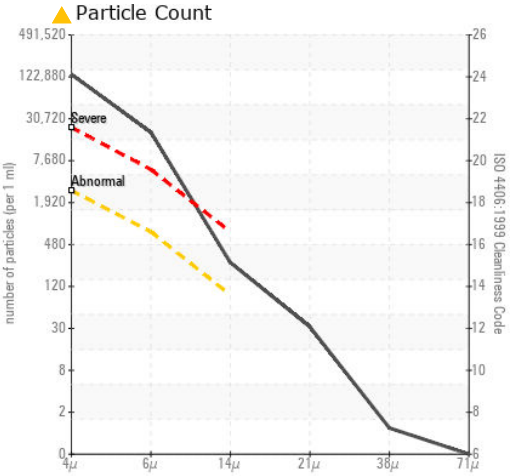
Non-ferrous Metals



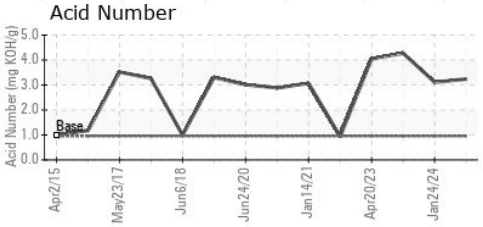
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0773257
Lab Number : 06218238
Unique Number : 11096435
Test Package : IND 2 (Additional Tests: KF, PQ, PrtCount)

Received : 24 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 26 Jun 2024 - Don Baldridge

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

Report Id: FLAMONNC [WUSCAR] 06218238 (Generated: 06/30/2024 01:35:32) Rev: 1

Contact/Location: JAMES WALTON - FLAMONNC