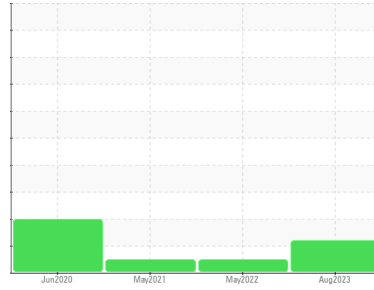




PROBLEM SUMMARY

Sample Rating Trend

ISO

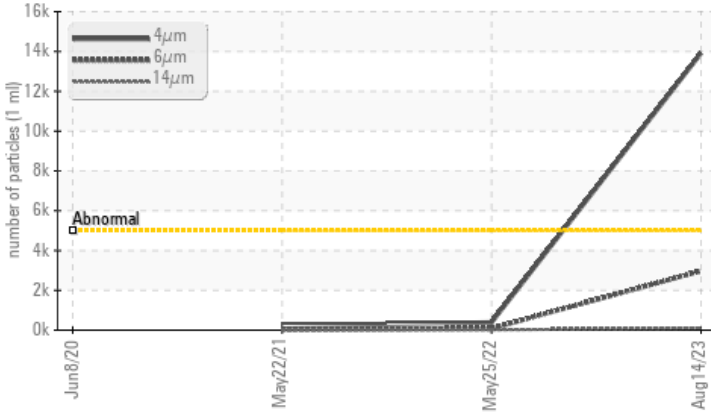


Area
[2870905]
 Machine Id
77AY06

Component
Hydraulic System
 Fluid
KLUBER KLUBEROIL 4 UH1-68 N (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	NORMAL
Particles >4µm	ASTM D7647	>5000	▲ 13909	392	229
Particles >6µm	ASTM D7647	>1300	▲ 2974	87	38
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/19/14	16/14/10	15/12/10

Customer Id: TALCLA
 Sample No.: WC0840234
 Lab Number: 05928785
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

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

25 May 2022 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



22 May 2021 Diag: Angela Borella

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



08 Jun 2020 Diag: Don Baldrige

WATER



We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. There is a trace of moisture present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

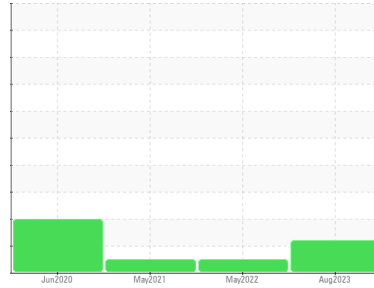
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
[2870905]
 Machine Id
77AY06

Component
Hydraulic System

Fluid
KLUBER KLUBEROIL 4 UH1-68 N (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 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	WC0840234	WC0664348	WC0520243
Sample Date	Client Info	14 Aug 2023	25 May 2022	22 May 2021
Machine Age	yrs Client Info	0	0	0
Oil Age	yrs Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>20	<1	<1	4
Chromium ppm ASTM D5185m	>20	0	0	<1
Nickel ppm ASTM D5185m	>20	0	<1	<1
Titanium ppm ASTM D5185m		0	0	0
Silver ppm ASTM D5185m		0	<1	<1
Aluminum ppm ASTM D5185m	>20	0	0	1
Lead ppm ASTM D5185m	>20	8	0	3
Copper ppm ASTM D5185m	>20	0	0	<1
Tin ppm ASTM D5185m	>20	0	<1	<1
Antimony ppm ASTM D5185m		---	---	0
Vanadium ppm ASTM D5185m		0	0	0
Cadmium ppm ASTM D5185m		0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		0	1	5
Barium ppm ASTM D5185m		0	0	0
Molybdenum ppm ASTM D5185m		0	0	0
Manganese ppm ASTM D5185m		0	0	<1
Magnesium ppm ASTM D5185m		1	0	0
Calcium ppm ASTM D5185m		6	0	0
Phosphorus ppm ASTM D5185m		649	581	669
Zinc ppm ASTM D5185m		6	0	0
Sulfur ppm ASTM D5185m		873	597	1288

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	15	12	13
Sodium ppm ASTM D5185m		0	0	<1
Potassium ppm ASTM D5185m	>20	0	0	0
Water % ASTM D6304	>0.05	0.001	0.00	0.001
ppm Water ppm ASTM D6304	>500	8.3	0.00	0.00

FLUID CLEANLINESS

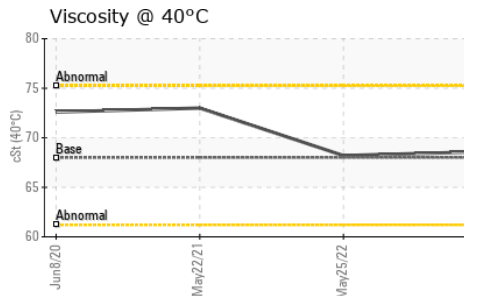
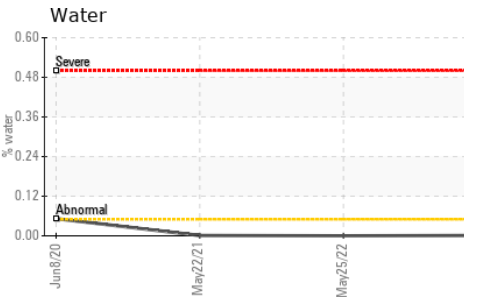
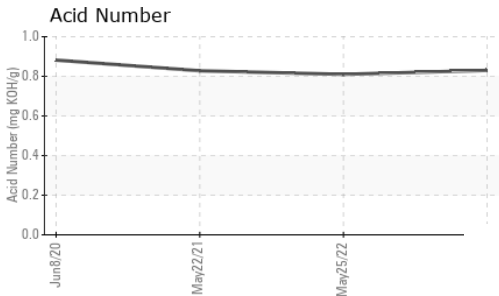
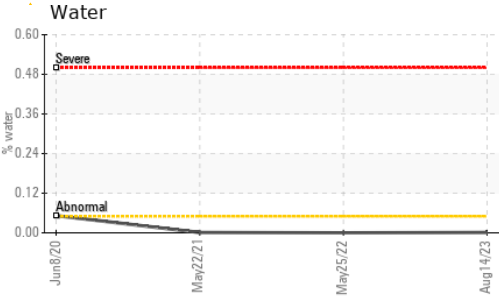
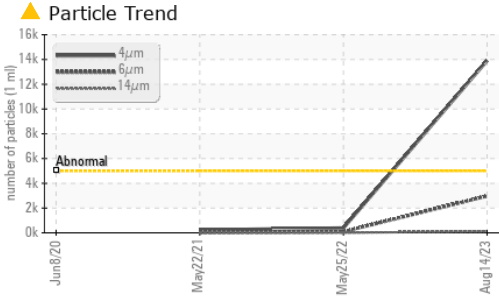
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>5000	▲ 13909	392	229
Particles >6µm ASTM D7647	>1300	▲ 2974	87	38
Particles >14µm ASTM D7647	>160	109	10	5
Particles >21µm ASTM D7647	>40	31	4	3
Particles >38µm ASTM D7647	>10	4	0	0
Particles >71µm ASTM D7647	>3	1	0	0
Oil Cleanliness ISO 4406 (c)	>19/17/14	▲ 21/19/14	16/14/10	15/12/10

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		0.83	0.81	0.828



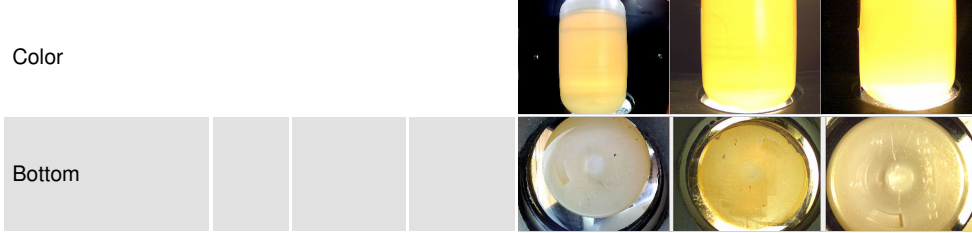
OIL ANALYSIS REPORT



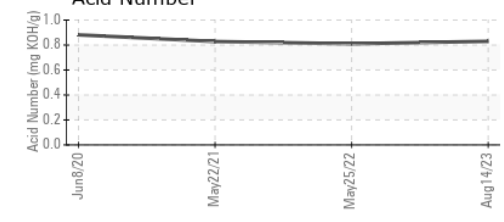
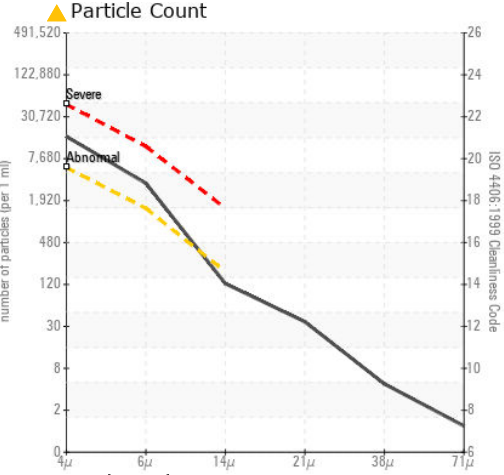
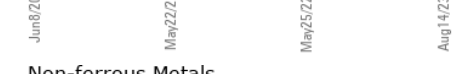
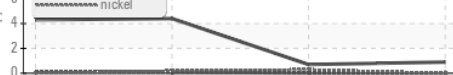
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 68	68.6	68.2	73.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0840234 **Received** : 18 Aug 2023
Lab Number : 05928785 **Diagnosed** : 22 Aug 2023
Unique Number : 10608732 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF)

GRIFOLS TALECRIS PHARMACEUTICAL
 8368 US 70 WEST
 CLAYTON, NC
 US 27520
 Contact: JOSHUA WORLEY
 joshua.worley@grifols.com
 T: (919)359-4946
 F: (919)359-4767

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)