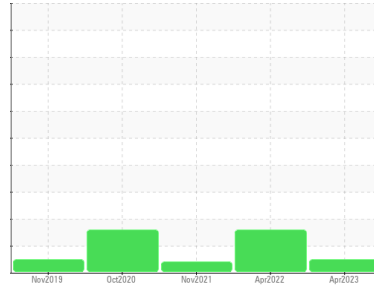




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
610 LYO [2814609]
 Machine Id
14T02 (S/N 06ER850350)
 Component
Pump Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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	WC0792603	WC0664338	WC0631001	
Sample Date	Client Info	10 Apr 2023	09 Apr 2022	02 Nov 2021	
Machine Age	mths	Client Info	0	0	0
Oil Age	mths	Client Info	0	0	0
Oil Changed	Client Info	Not Changed	Not Changd	Not Changed	
Sample Status		NORMAL	ABNORMAL	ATTENTION	

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >20	2	3	2
Chromium	ppm	ASTM D5185m >20	0	0	0
Nickel	ppm	ASTM D5185m >20	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	1	<1	<1
Aluminum	ppm	ASTM D5185m >20	0	<1	<1
Lead	ppm	ASTM D5185m >20	0	<1	0
Copper	ppm	ASTM D5185m >20	2	4	2
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 5	0	2	2
Barium	ppm	ASTM D5185m 5	0	0	0
Molybdenum	ppm	ASTM D5185m 5	<1	<1	<1
Manganese	ppm	ASTM D5185m	<1	<1	0
Magnesium	ppm	ASTM D5185m 25	23	8	4
Calcium	ppm	ASTM D5185m 200	114	221	112
Phosphorus	ppm	ASTM D5185m 300	353	659	324
Zinc	ppm	ASTM D5185m 370	449	786	440
Sulfur	ppm	ASTM D5185m 2500	6354	7887	4164

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	6	11	5
Sodium	ppm	ASTM D5185m	<1	<1	0
Potassium	ppm	ASTM D5185m >20	0	0	0
Water	%	ASTM D6304 >0.05	0.002	0.001	0.003
ppm Water	ppm	ASTM D6304 >500	19.7	14.8	37.0

FLUID CLEANLINESS

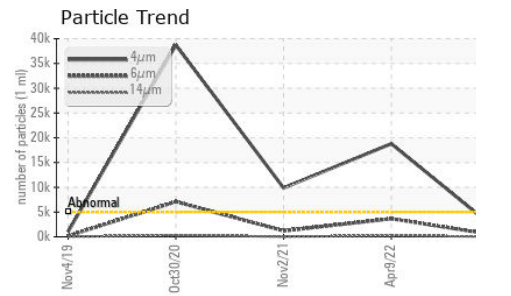
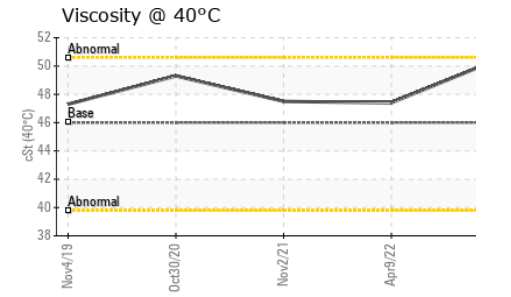
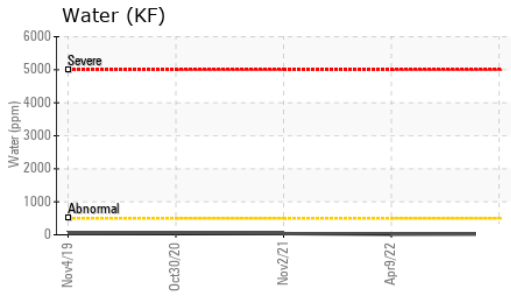
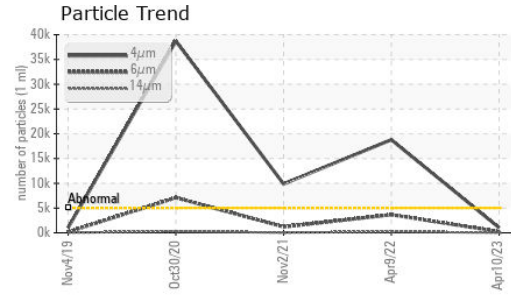
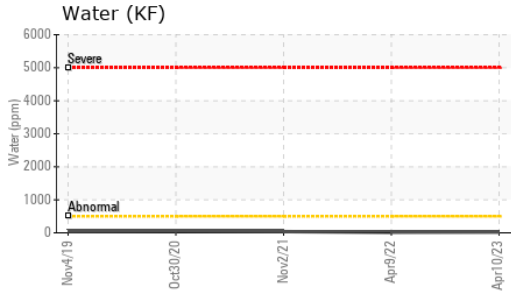
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	1037	▲ 18795	▲ 9873
Particles >6µm	ASTM D7647 >1300	222	▲ 3664	▲ 1204
Particles >14µm	ASTM D7647 >160	21	▲ 222	▲ 36
Particles >21µm	ASTM D7647 >40	10	▲ 49	▲ 11
Particles >38µm	ASTM D7647 >10	0	5	0
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	17/15/12	▲ 21/19/15	▲ 20/17/12

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	0.94	0.25	0.251



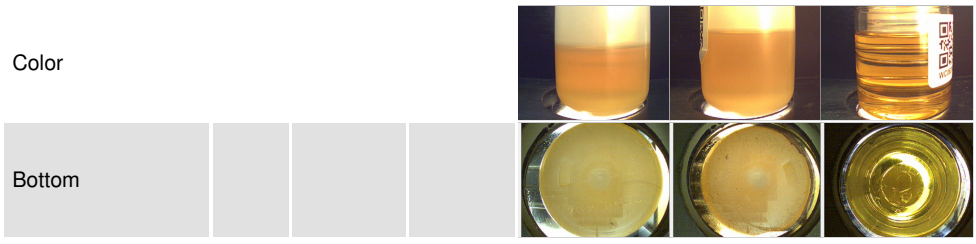
OIL ANALYSIS REPORT



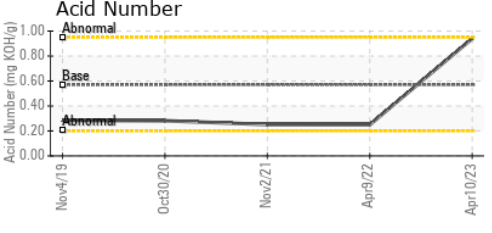
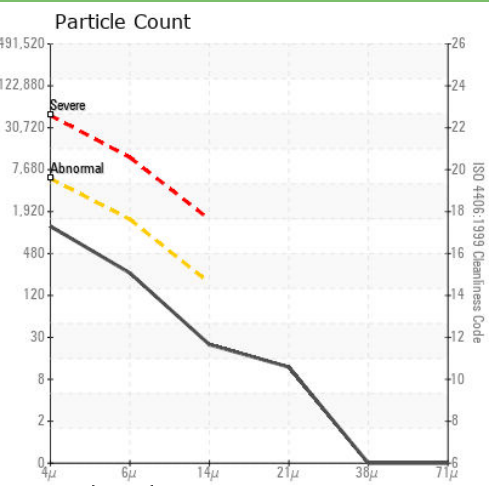
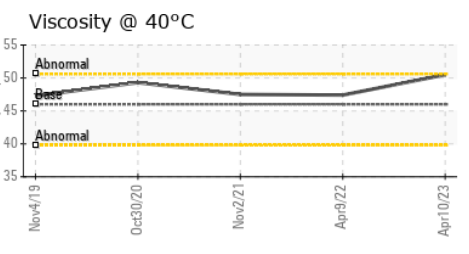
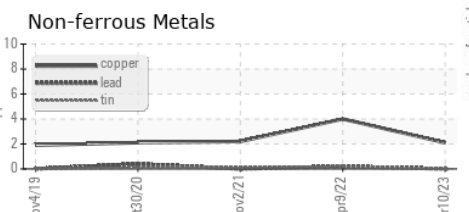
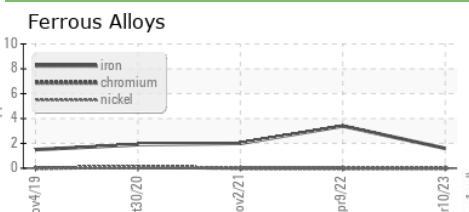
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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 46	50.5	47.4	47.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0792603 **Received** : 20 Apr 2023
Lab Number : 05825640 **Diagnosed** : 24 Apr 2023
Unique Number : 10433723 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF)

GRIFOLS TALECRIS PHARMACEUTICAL
 8368 US 70 WEST
 CLAYTON, NC
 US 27520
 Contact: WADE GRAHAM
 wade.graham@grifols.com
 T: (919)359-5031
 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)