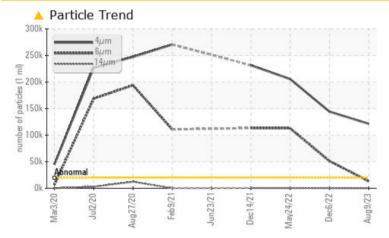


PROBLEM SUMMARY

Area **Utility** Machine Id **Amarillo Gear Co FHH85AH04 Cooling Tower, Cell / Fan** Component **Gearbox** Eluid

JAX FGG-AW ISO 220 (3 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL				
Particles >4µm	ASTM D7647	>20000	🔺 121395	▲ 144320	🔺 205664				
Particles >6µm	ASTM D7647	>5000	🔺 13158	5 1248	🔺 112881				
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<u> </u>	<u> </u>	▲ 25/24/15				

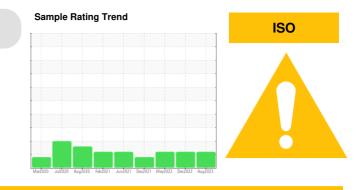
Customer Id: NOVFRANC Sample No.: WC0835748 Lab Number: 05922232 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

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

06 Dec 2022 Diag: Jonathan Hester



No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a high 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.



24 May 2022 Diag: Don Baldridge

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high 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.





14 Dec 2021 Diag: Angela Borella

We recommend you service the filters on this component if applicable. 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.





OIL ANALYSIS REPORT

Area Utility Machine Id Amarillo Gear Co FHH85AH04 Cooling Tower, Cell / Fan Component

Gearbox Fluid

JAX FGG-AW ISO 220 (3 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

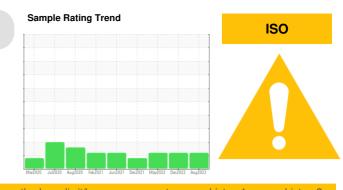
All component wear rates are normal.

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 INFORM	/IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0835748	WC0663740	WC0688785
Sample Date		Client Info		09 Aug 2023	06 Dec 2022	24 May 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	22	37	64
Chromium	ppm	ASTM D5185m	>15	0	<1	<1
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m	210	0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	2	1	2
				0	0	0
Lead	ppm	ASTM D5185m	>100	-		
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>25	0	0	0
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	1	0
Calcium	ppm	ASTM D5185m		2	4	10
Phosphorus	ppm	ASTM D5185m		548	532	581
Zinc	ppm	ASTM D5185m		0	6	4
Sulfur	ppm	ASTM D5185m		609	391	531
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185m	× 50	4	5	5
	ppm		>30		0	1
Sodium	ppm	ASTM D5185m	. 00	<1		
Potassium	ppm	ASTM D5185m	>20	<1	2	3
Water	%	ASTM D6304		0.001	0.007	0.00
ppm Water	ppm	ASTM D6304	>2000	10.6	76.3	0.00
FLUID CLEANLIN						
	IESS	method	limit/base	current	history1	history2
Particles >4µm	IESS	ASTM D7647	>20000	121395	▲ 144320	▲ 205664
Particles >4μm Particles >6μm	IESS	ASTM D7647 ASTM D7647	>20000 >5000	▲ 121395▲ 13158	14432051248	▲ 205664▲ 112881
Particles >4µm Particles >6µm Particles >14µm	IESS	ASTM D7647 ASTM D7647 ASTM D7647	>20000 >5000 >640	 121395 13158 79 	 144320 51248 309 	 205664 112881 315
Particles >4μm Particles >6μm	IESS	ASTM D7647 ASTM D7647	>20000 >5000 >640	▲ 121395▲ 13158	14432051248	▲ 205664▲ 112881
Particles >4µm Particles >6µm Particles >14µm	IESS	ASTM D7647 ASTM D7647 ASTM D7647	>20000 >5000 >640	 121395 13158 79 	 144320 51248 309 	 205664 112881 315
Particles >4µm Particles >6µm Particles >14µm Particles >21µm		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20000 >5000 >640 >160 >40	 121395 13158 79 19 	 144320 51248 309 51 	 205664 112881 315 13
Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20000 >5000 >640 >160 >40	 121395 13158 79 19 1 	 144320 51248 309 51 1 	 205664 112881 315 13 0
Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20000 >5000 >640 >160 >40 >10	 121395 13158 79 19 0 	 144320 51248 309 51 1 0 	 205664 112881 315 13 0 0

Report Id: NOVFRANC [WUSCAR] 05922232 (Generated: 08/14/2023 13:34:09) Rev: 1

Submitted By: CHASE MCGEE



Acid Number

0.70

0.60 ₹ 0.50

OIL ANALYSIS REPORT

scalar

scalar

scalar

scalar

scalar

scalar

method

*Visual

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scalar *Visual

VISUAL

White Metal

Yellow Metal

Precipitate

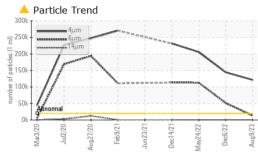
Silt

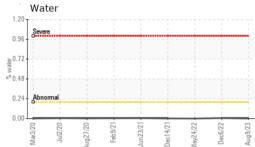
Debris

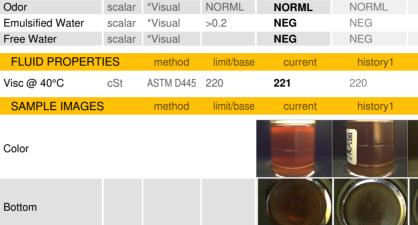
Odor

Sand/Dirt

Appearance







limit/base

NONE

NONE

NONE

NONE

NONE

NONE

NORML

current

NONE

NONE

NONE

NONE

NONE

NONE

NORML

history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history2

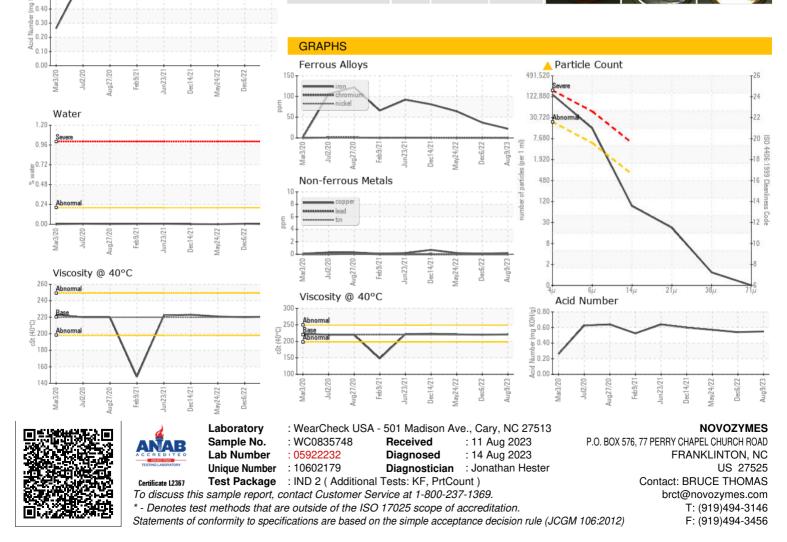
history2

NEG

NEG

221

Bottom



Submitted By: CHASE MCGEE

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