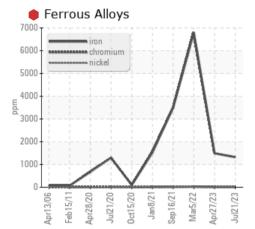


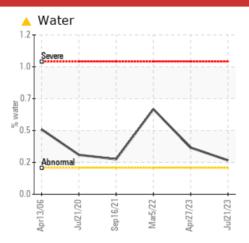
PROBLEM SUMMARY

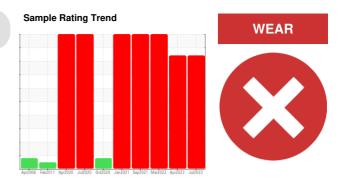
Machine Id **1101400 - FAIRFIELD MFG TORQUE HUB (S/N S3A43355ZB)** Component **Bottom Gearbox**

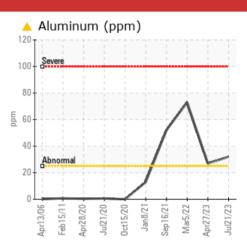
Fluid GEAR OIL ISO 220 (--- GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	SEVERE	SEVERE		
Iron	ppm	ASTM D5185m	>200	🛑 1325	1494	6797		
Aluminum	ppm	ASTM D5185m	>25	A 32	<u> </u>	A 73		
Water	%	ASTM D6304	>0.2	A 0.256	▲ 0.351	0.641		
ppm Water	ppm	ASTM D6304	>2000	🔺 2560	<u> </u>	<u> </u>		

Customer Id: LEPALL Sample No.: WC0823797 Lab Number: 05922358 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

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

RECOMMENDED A	RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description			
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.			
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.			
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



27 Apr 2023 Diag: Jonathan Hester

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Gear wear is indicated. There is a moderate concentration of water present in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.





05 Mar 2022 Diag: Jonathan Hester

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.



16 Sep 2021 Diag: Jonathan Hester



We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Gear wear is indicated. Appearance is hazy. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress. Free water present. There is a light concentration of water present in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.





OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

X

Machine Id **1101400 - FAIRFIELD MFG TORQUE HUB (S/N S3A43355ZB)** Component Bottom Gearbox

Fluid GEAR OIL ISO 220 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

🛡 Wear

Gear wear is indicated.

Contamination

There is a moderate concentration of water present in the oil.

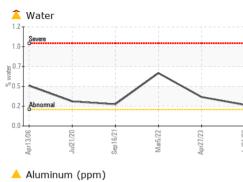
Fluid Condition

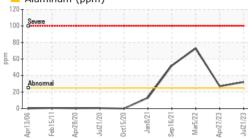
The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

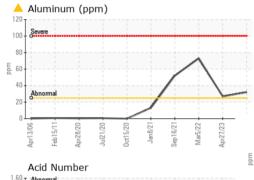
		Apr2006 Feb2	011 Apr2020 Jul2020 Oct2	020 Jan2021 Sep2021 Mar2022 Api	2023 Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0823797	WC0793923	WC0641539
Sample Date		Client Info		21 Jul 2023	27 Apr 2023	05 Mar 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	e 1325	• 1494	6797
Chromium	ppm	ASTM D5185m	>15	11	11	<u> </u>
Nickel	ppm	ASTM D5185m	>15	5	4	13
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	1
Aluminum	ppm	ASTM D5185m	>25	<u> </u>	A 27	1 73
Lead	ppm	ASTM D5185m	>100	39	36	6
Copper	ppm	ASTM D5185m	>200	74	77	38
Tin	ppm	ASTM D5185m	>25	6	6	4
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		<1	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	<1	1	11
Barium	ppm	ASTM D5185m	15	12	7	0
Molybdenum	ppm	ASTM D5185m	15	1	1	7
Manganese	ppm	ASTM D5185m		14	15	68
Magnesium	ppm	ASTM D5185m	50	7	6	5
Calcium	ppm	ASTM D5185m	50	166	147	336
Phosphorus	ppm	ASTM D5185m	350	291	261	360
Zinc	ppm	ASTM D5185m	100	306	296	102
Sulfur	ppm	ASTM D5185m	12500	2674	2020	3574
CONTAMINANTS	8	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	22	23	9321
Sodium	ppm	ASTM D5185m		3	<1	5
Potassium	ppm	ASTM D5185m	>20	2	1	0
Water	%	ASTM D6304	>0.2	A 0.256	0 .351	▲ 0.641
ppm Water	ppm	ASTM D6304	>2000	A 2560	▲ 3510	6 410
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.33	0.32	0.08

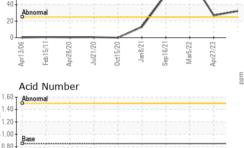


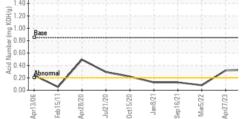
OIL ANALYSIS REPORT

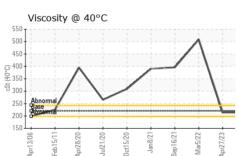






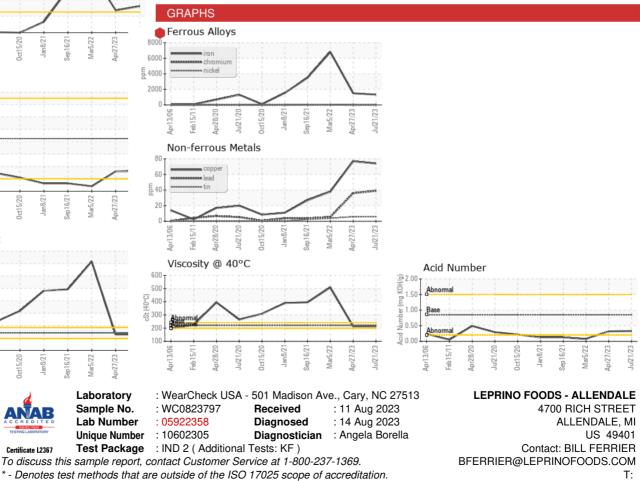






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	MODER	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	0.2%	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	214	214	▲ 508.8
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color						

Bottom



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: BILL FERRIER - LEPALL

F: