

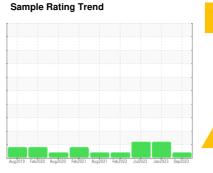
PROBLEM SUMMARY

Fermentation

Lightnin FFG20CB01 Dosing Tank, Agitator

Gearbox

JAX FGG-AW ISO 220 (4 GAL)





COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

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

PROBLEMATIC T	EST RE	SULTS				
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Debris	scalar	*Visual	NONE	▲ MODER	LIGHT	LIGHT

Customer Id: NOVFRANC Sample No.: WC0842998 Lab Number: 05963575 Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component if applicable.
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

27 Jan 2023 Diag: Jonathan Hester

ISO



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 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.



28 Jul 2022 Diag: Doug Bogart

ISO



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 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.



01 Feb 2022 Diag: Jonathan Hester

ISO



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 < 6 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.





OIL ANALYSIS REPORT



VIS DEBRIS

Fermentation

Lightnin FFG20CB01 Dosing Tank, Agitator

Gearbox

JAX FGG-AW ISO 220 (4 GAL)

DIAGNOSIS

Recommendation

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

Contamination

Moderate concentration of visible dirt/debris 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.

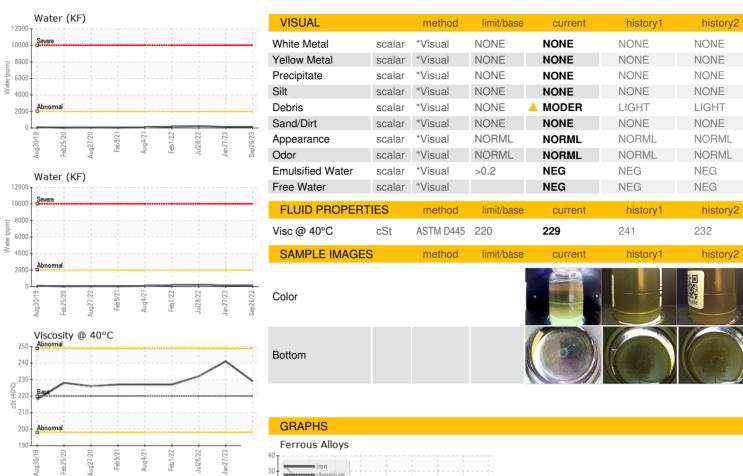
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0842998	WC0765170	WC0718056
Sample Date		Client Info		26 Sep 2023	27 Jan 2023	28 Jul 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	5	19	17
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm		>25	4	11	7
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m	>200	<1	0	0
Tin	ppm	ASTM D5185m	>25	0	0	1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	рріп	<u> </u>	1114-/1	-		
ADDITIVES		method	limit/base		history1	history2
Boron	ppm	ASTM D5185m		<1	11	7
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	1	0
Calcium	ppm	ASTM D5185m		195	467	161
Phosphorus	ppm	ASTM D5185m		534	543	521
Zinc	ppm	ASTM D5185m		0	36	13
Sulfur	ppm	ASTM D5185m		946	1012	1021
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm		>50	1	1	1
Sodium	ppm	ASTM D5185m		<1	0	<1
Potassium	ppm	ASTM D5185m	>20	0	1	0
Water	%	ASTM D6304	>0.2	0.010	0.013	0.022
ppm Water	ppm	ASTM D6304	>2000	102.3	139.9	221.4
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>20000		▲ 131779	△ 103654
Particles >6µm		ASTM D7647			<u>^</u> 7605	<u></u> 5716
Particles >14μm		ASTM D7647	>640		99	68
Particles >21µm		ASTM D7647	>160		13	13
Particles >38µm		ASTM D7647	>40		1	1
Particles >71μm		ASTM D7647	>10		0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16		2 4/20/14	2 4/20/13
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

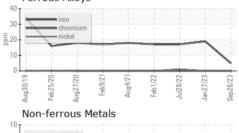
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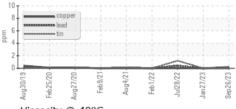
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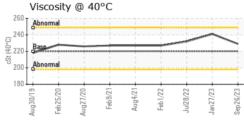


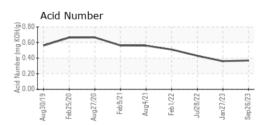
OIL ANALYSIS REPORT















Certificate L2367

Laboratory Sample No. **Unique Number**

Lab Number

: WC0842998 : 05963575 : 10670126

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received : 28 Sep 2023 Diagnosed

Diagnostician : Don Baldridge Test Package : IND 2 (Additional Tests: KF, PrtCount)

: 29 Sep 2023

NOVOZYMES P.O. BOX 576, 77 PERRY CHAPEL CHURCH ROAD FRANKLINTON, NC US 27525

Contact: BRUCE THOMAS brct@novozymes.com

T: (919)494-3146 F: (919)494-3456

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)