

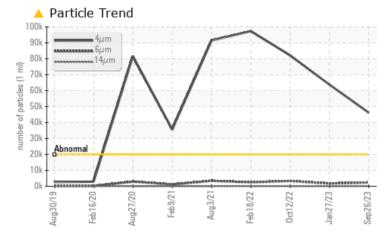
PROBLEM SUMMARY

Area Fermentation Machine Id Lightnin FFG40SB01 Seed Fermentor, Agitator Component Gearbox

Gearbo

JAX MAGNA-PLATE 220 FG (11 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	<u> </u>	6 3787	▲ 82122		
Oil Cleanliness	ISO 4406 (c)	>21/19/16	A 23/18/14	🔺 23/18/11	4 /19/12		

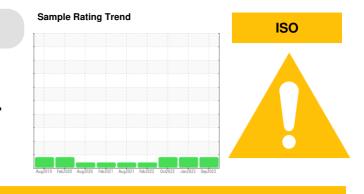
Customer Id: NOVFRANC Sample No.: WC0843006 Lab Number: 05963572 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

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



RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

27 Jan 2023 Diag: Doug Bogart



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.



12 Oct 2022 Diag: Doug Bogart

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.





18 Feb 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 < 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

Fermentation Lightnin FFG40SB01 Seed Fermentor, Agitator Component

Gearbox Fluic

JAX MAGNA-PLATE 220 FG (11 GAL)

DIAGNOSIS

Recommendation

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

Wear

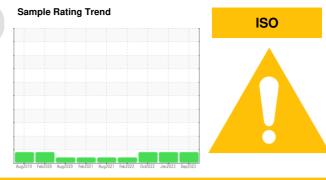
All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 6 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.



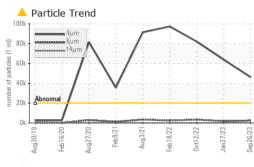
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0843006	WC0745858	WC0737307
Sample Date		Client Info		26 Sep 2023	27 Jan 2023	12 Oct 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	27	30	28
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	22	22	23
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	<1
Tin	ppm	ASTM D5185m	>25	0	0	<1
Antimony	ppm	ASTM D5185m	>5			
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	0	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		1	1	1
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		81	37	38
Phosphorus	ppm	ASTM D5185m		643	621	628
Zinc	ppm	ASTM D5185m		33	49	50
Sulfur	ppm	ASTM D5185m		1209	1026	1347
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185m		<1	<1	1
Sodium	ppm		>50	1	0	
Potassium	ppm	ASTM D5185m ASTM D5185m	> 20	0	1	<1 <1
Water	ppm %	ASTM D5185III ASTM D6304		0.016	0.009	0.006
ppm Water	ppm	ASTM D0304 ASTM D6304		162.0	98.4	67.7
FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	▲ 46178	63787	▲ 82122
Particles >6µm		ASTM D7647 ASTM D7647		2413	1773	3328
Particles >14µm		ASTM D7647 ASTM D7647	>5000 >640	99	13	21
Particles >21µm		ASTM D7647 ASTM D7647		12	0	4
Particles >38µm		ASTM D7647 ASTM D7647	>40	1	0	0
Particles >71µm		ASTM D7647 ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	o ▲ 23/18/14	▲ 23/18/11	▲ 24/19/12
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.61	0.65	0.70
AGU NUMBER (AN)	ing itori/g	A0 I WI D0040		0.01	0.00	0.70

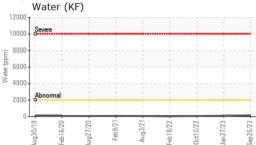
Acid Number (AN) mg KOH/g ASTM D8045 Report Id: NOVFRANC [WUSCAR] 05963572 (Generated: 09/29/2023 19:21:09) Rev: 1

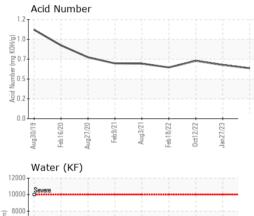
Submitted By: CHASE MCGEE

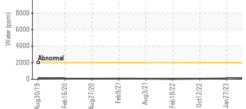


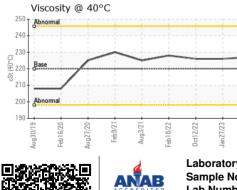
OIL ANALYSIS REPORT









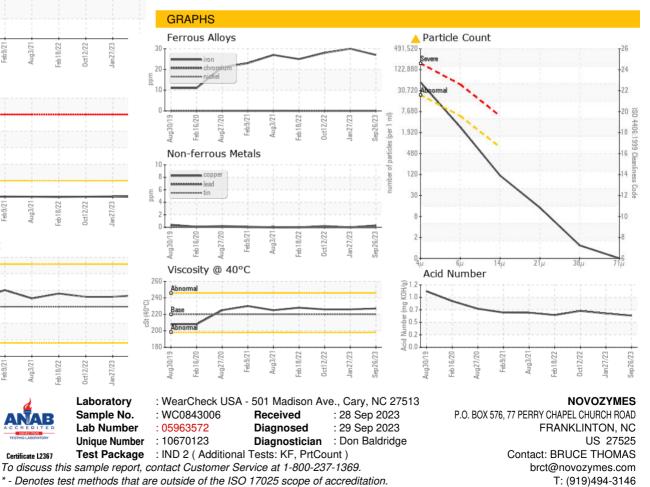


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	227	226	226
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color



Bottom



* - 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)

Submitted By: CHASE MCGEE

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