

## **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL



# Area

# Fermentation Lightnin FFG20DB01 Dosing Tank, Agitator

Gearbox

JAX FGG-AW ISO 220 (4 GAL)

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

#### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		Sep 2019	Aug2020 Mm2021	M-2022 M-2022	M=2024	
		oupcoro	THE STATE OF THE S	marver marver	maybot 1	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0888631	WC0842999	WC0697843
Sample Date		Client Info		31 May 2024	26 Sep 2023	07 Mar 2023
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				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	5	10	8
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	<1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	0	<1	0
Tin	ppm	ASTM D5185m	>25	0	0	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		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		8	0	1
Phosphorus	ppm	ASTM D5185m		595	624	554
Zinc	ppm	ASTM D5185m		0	0	2
Sulfur	ppm	ASTM D5185m		669	636	660
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	0	<1	<1
Sodium	ppm	ASTM D5185m		<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.2	0.003	0.005	0.005
ppm Water	ppm	ASTM D6304	>2000	37	56.6	53.4
FLUID CLEANLIN	IESS _	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	2877	3096	7892
Particles >6µm		ASTM D7647	>5000	534	384	583
Particles >14µm		ASTM D7647	>640	39	23	19
Particles >21µm		ASTM D7647	>160	10	5	3

ASTM D7647 >40

ASTM D7647 >10

mg KOH/g ASTM D8045

ISO 4406 (c) >21/19/16

0

0.67

19/16/12

Particles >38µm

Particles >71µm

Oil Cleanliness

Acid Number (AN)

FLUID DEGRADATION

0

0.68

19/16/12

0

0.69

20/16/11



### **OIL ANALYSIS REPORT**







Laboratory

Sample No. Lab Number

: WC0888631 : 06197621 Unique Number : 11059744

Received **Tested** 

: 03 Jun 2024 : 04 Jun 2024 Diagnosed : 04 Jun 2024 - Don Baldridge

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

Test Package : IND 2 ( Additional Tests: KF, PrtCount ) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)494-3146 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)494-3456

Contact: BRUCE THOMAS

brct@novozymes.com