

# **OIL ANALYSIS REPORT**

## Sample Rating Trend

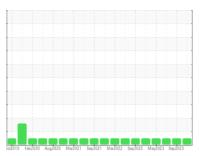
# **NORMAL**

# Fermentation

# Lightnin FFG35MB01 Main Fermentor, Agitator

Gearbox

JAX FGG-AW ISO 220 (28 GAL)





## Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

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

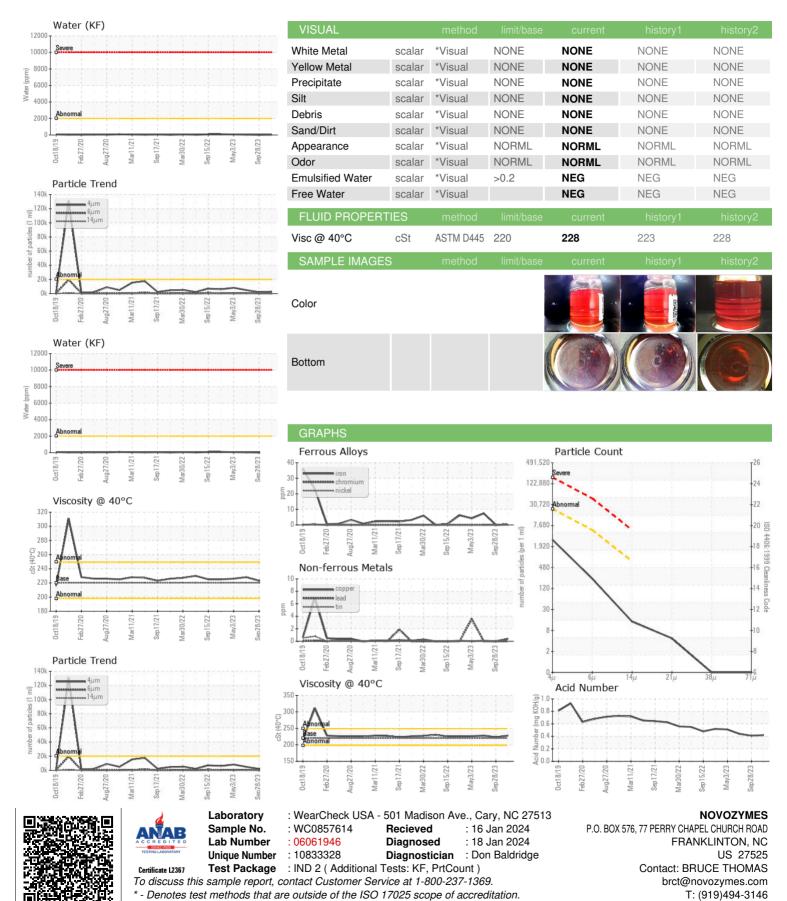
## **Fluid Condition**

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

JedZ019 FebZ020 AugZ020 MarZ021 SopZ021 MarZ022 SopZ022 MarZ023 SopZ023 SopZ023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0857614	WC0822456	WC0793893
Sample Date		Client Info		11 Jan 2024	28 Sep 2023	16 Jun 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	<1	0	7
Chromium	ppm	ASTM D5185m	>15	<1	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	2	0	<1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	<1
Tin	ppm	ASTM D5185m	>25	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		2	0	6
Phosphorus	ppm	ASTM D5185m		440	463	475
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		684	664	710
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	3	5
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water	%	ASTM D6304	>0.2	0.003	0.001	0.003
ppm Water	ppm	ASTM D6304	>2000	30	0.6	38.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	2627	1926	4923
Particles >6µm		ASTM D7647	>5000	202	268	766
Particles >14µm		ASTM D7647	>640	12	25	81
Particles >21µm		ASTM D7647	>160	4	5	21
Particles >38μm		ASTM D7647	>40	0	0	1
Particles >71μm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/15/11	18/15/12	19/17/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.42	0.41	0.44



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

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