

# **OIL ANALYSIS REPORT**

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

Oil Age

## Area **Fermentation** Lightnin FHG51FB01 Main Fermentor, Agitator

Gearbox Fluid

JAX FGG-AW ISO 220 (28 GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

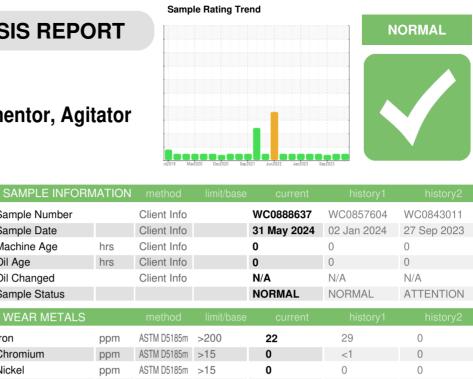
All component wear rates are normal.

#### 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.



VILAN WILLIALS		methou			Thistory I	mstoryz
Iron	ppm	ASTM D5185m	>200	22	29	0
Chromium	ppm	ASTM D5185m	>15	0	<1	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	0
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>200	0	<1	<1
Tin	ppm	ASTM D5185m	>25	0	<1	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	10	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		7	2	<1
Phosphorus	ppm	ASTM D5185m		590	568	638
Zinc	ppm	ASTM D5185m		10	6	<1
Sulfur	ppm	ASTM D5185m		1561	1536	652
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	0	<1	6
Sodium	ppm	ASTM D5185m		2	0	0

D5185m >20	0 2	0
D6304 >0.2	0.003 0.00	0.002
D6304 >2000	<b>38</b> 27	15.6
thod limit/base	current his	story1 history2
D7647 >20000	<b>4474</b> 565	3 805
D7647 >5000	<b>565</b> 737	191
D7647 >640	<b>46</b> 33	12
ID7647 >160	<b>12</b> 8	4
D7647 >40	<b>0</b> 0	1
ID7647 >10	0 0	1
406 (c) >21/19/16	<b>19/16/13</b> 20/1	17/12 17/15/11
thod limit/base	current his	story1 history2
	ID6304 >0.2   ID6304 >2000   thod limit/base   ID7647 >2000   ID7647 >5000   ID7647 >640   ID7647 >160   ID7647 >10   ID7647 >10   ID7647 >10   406 (c) >21/19/16	ID6304 >0.2 0.003 0.00   ID6304 >2000 38 27   thod limit/base current his   ID7647 >20000 4474 565   ID7647 >5000 565 737   ID7647 >640 46 33   ID7647 >160 12 8   ID7647 >40 0 0   ID7647 >10 0 0   ID7647 >20/0 20/7 10

0.57

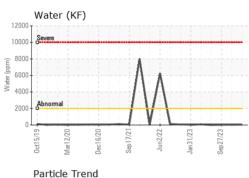
Acid Number (AN)

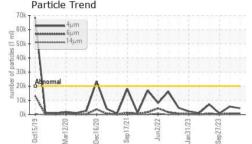
mg KOH/g ASTM D8045

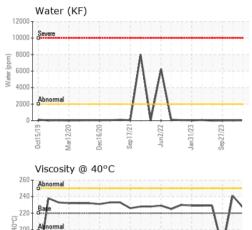
0.58 0.73 Submitted By: CHASE MCGEE

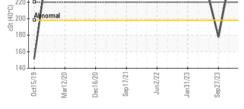


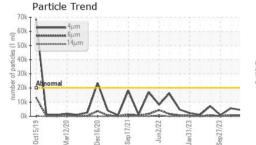
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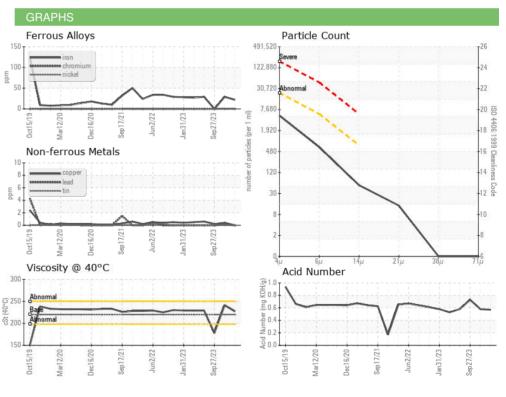


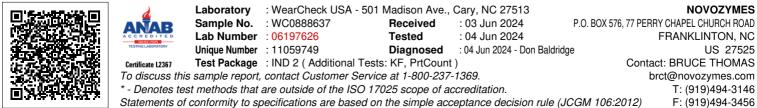




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	227	241	177.7
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				A. (1) (4)		

Bottom





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Submitted By: CHASE MCGEE

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