

OIL ANALYSIS REPORT

SAMPLE INFO

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

WEAR METALS

Oil Age

Iron

Nickel

Silver Aluminum Lead Copper Tin Vanadium Cadmium

Titanium

Chromium

Area **Fermentation** Lightnin FHG51CB01 Main Fermentor, Ag

Gearbox Fluid

JAX FGG-AW ISO 220 (46 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. (Customer Sample Comment: Just filtered the oil)

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 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.

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RN	IATION	method	limit/base	current	history1	history2
		Client Info		WC0933671	WC0888635	WC0916396
		Client Info		21 Jun 2024	31 May 2024	01 May 2024
	hrs	Client Info		0	0	0
	hrs	Client Info		0	0	0
		Client Info		N/A	N/A	N/A
				ABNORMAL	ABNORMAL	ABNORMAL
S		method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>200	96	4 347	A 276
	ppm	ASTM D5185m	>15	0	2	1
	ppm	ASTM D5185m	>15	0	0	<1
	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m	>25	0	0	0
	ppm	ASTM D5185m	>100	0	0	0
	ppm	ASTM D5185m	>200	0	0	0
	ppm	ASTM D5185m	>25	0	0	0
	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m		0	0	0

ISO

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		<1	3	2
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		3	15	13
Phosphorus	ppm	ASTM D5185m		662	651	617
Zinc	ppm	ASTM D5185m		4	0	0
Sulfur	ppm	ASTM D5185m		883	848	807
CONTAMINANTS		method	limit/base	current	history1	history2

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Silicon	ppm	ASTM D5185m	>50	10	<1	2
Sodium	ppm	ASTM D5185m		<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.2	0.002	0.004	0.010
ppm Water	ppm	ASTM D6304	>2000	22	42	107

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	 147324	4 19523	4 05491
Particles >6µm	ASTM D7647	>5000	🔺 55471	▲ 295302	A 273163
Particles >14µm	ASTM D7647	>640	394	4 9780	▲ 6803
Particles >21µm	ASTM D7647	>160	34	4 65	A 395
Particles >38µm	ASTM D7647	>40	0	4	4
Particles >71µm	ASTM D7647	>10	0	0	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	A 24/23/16	▲ 26/25/20	▲ 26/25/20
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045		0.52	0.57	0.67

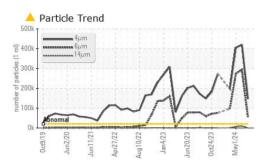
Acid Number (AN)

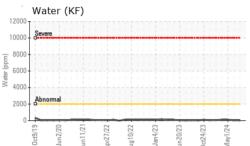
mg KOH/g ASTM D8045

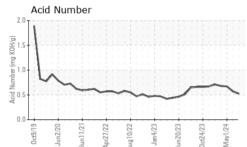
0.57 0.67 Submitted By: CHASE MCGEE

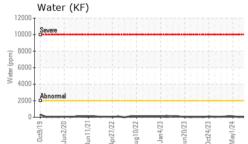


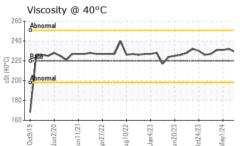
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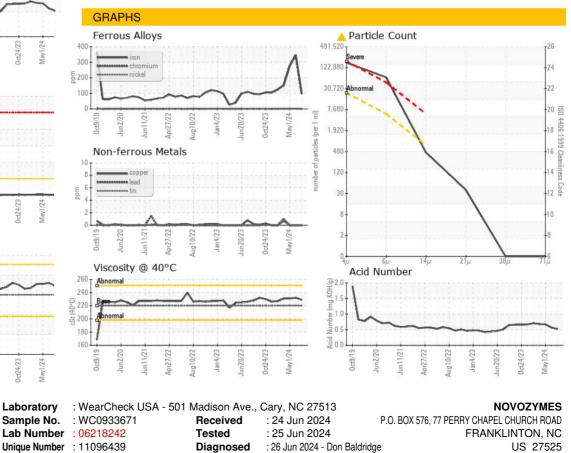






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	- HAZY	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	229	232	231
SAMPLE IMAGES	5	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)

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

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Submitted By: CHASE MCGEE

Contact: BRUCE THOMAS

brct@novozymes.com

T: (919)494-3146

F: (919)494-3456

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