

OIL ANALYSIS REPORT

Area **Utility** Machine Id FEH85AH06 Cooling Tower, Cell / Fan Gearbox

Fluid

JAX FGG-AW ISO 220 (7 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	historv1	historv2			
Sample Number		Client Info		WC0962803	WC0822450	WC0795879			
Sample Date		Client Info		16 Jul 2024	28 Sep 2023	09 May 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				ABNORMAL	ABNORMAL	ABNORMAL			
WEAR METALS		method	limit/base	current	history1	history2			
Iron	ppm	ASTM D5185m	>200	12	19	21			
Chromium	ppm	ASTM D5185m	>15	<1	0	<1			
Nickel	ppm	ASTM D5185m	>15	0	<1	<1			
Titanium	ppm	ASTM D5185m		<1	0	0			
Silver	ppm	ASTM D5185m		<1	0	0			
Aluminum	ppm	ASTM D5185m	>25	4	0	0			
Lead	ppm	ASTM D5185m	>100	0	0	0			
Copper	ppm	ASTM D5185m	>200	<1	<1	0			
Tin	ppm	ASTM D5185m	>25	<1	0	<1			
Vanadium	ppm	ASTM D5185m		<1	0	0			
Cadmium	ppm	ASTM D5185m		<1	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		<1	0	0			
Manganese	ppm	ASTM D5185m		<1	<1	<1			
Magnesium	ppm	ASTM D5185m		<1	<1	2			
Calcium	ppm	ASTM D5185m		0	4	5			
Phosphorus	ppm	ASTM D5185m		653	628	643			
Zinc	ppm	ASTM D5185m		16	14	6			
Sulfur	ppm	ASTM D5185m		567	589	676			
CONTAMINANTS		method	limit/base	current	history1	history2			
Silicon	ppm	ASTM D5185m	>50	6	8	5			
Sodium	ppm	ASTM D5185m		0	0	4			
Potassium	ppm	ASTM D5185m	>20	1	<1	2			
Water	%	ASTM D6304	>0.2	0.006	0.001	0.002			
ppm Water	ppm	ASTM D6304	>2000	64	13.8	19.0			
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2			
Particles >4µm		ASTM D7647	>20000	A 40212	A 83136	A 69245			
Particles >6µm		ASTM D7647	>5000	1940	8532	7040			
Particles >14µm		ASTM D7647	>640	21	154	198			
Particles >21µm		ASTM D7647	>160	3	42	40			
Particles >38µm		ASTM D7647	>40	0	2	12			
Particles >/1µm Oil Cleanliness		ASTM D7647 ISO 4406 (c)	>10	0	1	3			
			limit/lease		bictored	histor 0			
A sid Number (AN)		method	limit/base	current	nistory	nistory2			
Acia Number (AN)	nig KUH/g	ASTIVI D8045		0.73	0.00	0.69			

Sample Rating Trend

ISO



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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	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	225	231	227
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						



Bottom



: 19 Jul 2024

Tested

Diagnosed

P.O. BOX 576, 77 PERRY CHAPEL CHURCH ROAD FRANKLINTON, NC : 19 Jul 2024 - Doug Bogart US 27525 Contact: BRUCE THOMAS brct@novozymes.com T: (919)494-3146 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)494-3456

Report Id: NOVFRANC [WUSCAR] 06240359 (Generated: 07/19/2024 11:51:10) Rev: 1

Certificate 12367

Lab Number : 06240359

Unique Number : 11129193

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

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Submitted By: CHASE MCGEE

Page 2 of 2