

OIL ANALYSIS REPORT

Area Fermentation Lightnin FFG33MB01 Main Fermer 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 component. The amount and size of particulates present in the system is acceptable.

Fluid Condition

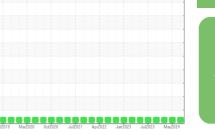
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

mentor, Agi	tator					
		ul2019 Mar2	020 0et2020 Jul2021	Apr2022 Jan2023 Jul2023	May2024	
			1 <i>a</i>			
SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0901917	WC0894973	WC0857613
Sample Date		Client Info		12 Jul 2024	01 May 2024	11 Jan 2024
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	4	2	4
Chromium	ppm	ASTM D5185m	>15	0	0	<1
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	2
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	0	0	1
Tin	ppm	ASTM D5185m	>25	0	0	<1
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	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	<1	3
Phosphorus	ppm	ASTM D5185m		577 3	562	681
Zinc	ppm	4STM 15185m			0	â
		ASTM D5185m		-	6	0
Sulfur	ppm	ASTM D5185m		3 894	900	980
CONTAMINANTS			limit/base	-	÷	÷
CONTAMINANTS Silicon		ASTM D5185m method ASTM D5185m		894 current 1	900 history1 <1	980 history2 1
CONTAMINANTS Silicon Sodium)	ASTM D5185m method ASTM D5185m ASTM D5185m	>50	894 current 1 <1	900 history1 <1 0	980 history2 1 0
CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>50 >20	894 current 1 <1 0	900 history1 <1 0 0	980 history2 1 0 <1
CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm %	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>50 >20 >0.2	894 current 1 <1 0 0.004	900 history1 <1 0 0 0 0.011	980 history2 1 0 <1 0.003
CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm % ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	>50 >20	894 current 1 <1 0	900 history1 <1 0 0	980 history2 1 0 <1
CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm % ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	>50 >20 >0.2	894 current 1 <1 0 0.004	900 history1 <1 0 0 0 0.011	980 history2 1 0 <1 0.003
CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm % ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647	>50 >20 >0.2 >2000 limit/base >20000	894 current 1 <1 0 0.004 49 current 8856	900 history1 <1 0 0 0.011 110 history1 3562	980 history2 1 0 <1 0.003 31 history2 655
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm ppm ppm % ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	>50 >20 >0.2 >2000 limit/base	894 current 1 <1 0 0.004 49 current 8856 1501	900 history1 <1 0 0 0.011 110 history1	980 history2 1 0 <1 0.003 31 history2
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm % ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 >0.2 >2000 ilmit/base >20000 >5000 >5000 >640	894 current 1 <1 0 0.004 49 current 8856 1501 34	900 history1 <1 0 0 0.011 110 history1 3562 516 24	980 history2 1 0 <1 0.003 31 history2 655 134 12
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm % ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 >0.2 >2000 limit/base >20000 >5000 >640 >160	894 current 1 <1 0 0.004 49 current 8856 1501 34 6	900 history1 <1 0 0 0.011 110 history1 3562 516 24 10	980 history2 1 0 <1 0.003 31 history2 655 134 12 4
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm % ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 CASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 >0.2 >2000 limit/base >20000 >5000 >5000 >640 >160 >40	894 current 1 1 1 0 0.004 49 current 8856 1501 34 6 0	900 history1 <1 0 0 0.011 110 history1 3562 516 24	980 history2 1 0 <1 0.003 31 history2 655 134 12 4 0
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm % ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 >0.2 >2000 limit/base >20000 >5000 >5000 >640 >160 >40 >10	894 current 1 <1 0 0.004 49 current 8856 1501 34 6 0 0 0	900 history1 <1 0 0 0.011 110 history1 3562 516 24 10 2 1	980 history2 1 0 <1 0.003 31 history2 655 134 12 4 0 0 0
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness	ppm ppm % ppm IESS	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 CASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 >0.2 >2000 limit/base >20000 >5000 >5000 >640 >160 >40	894 current 1 1 1 0 0.004 49 current 8856 1501 34 6 0	900 history1 <1 0 0 0.011 110 history1 3562 516 24 10	980 history2 1 0 <1 0.003 31 history2 655 134 12 4 0
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm % ppm IESS	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 >0.2 >2000 limit/base >20000 >5000 >5000 >640 >160 >40 >10	894 current 1 <1 0 0.004 49 current 8856 1501 34 6 0 0 0	900 history1 <1 0 0 0.011 110 history1 3562 516 24 10 2 1	980 history2 1 0 <1 0.003 31 history2 655 134 12 4 0 0 0

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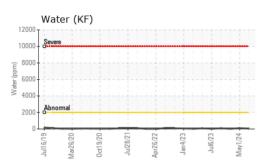
Sample Rating Trend

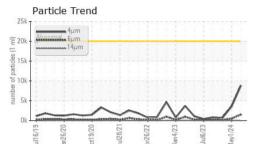


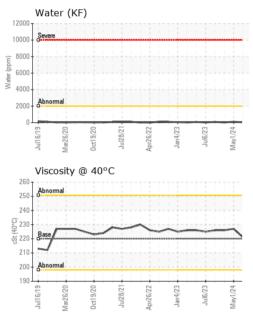
NORMAL

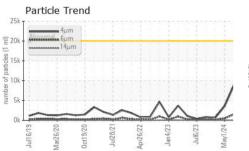


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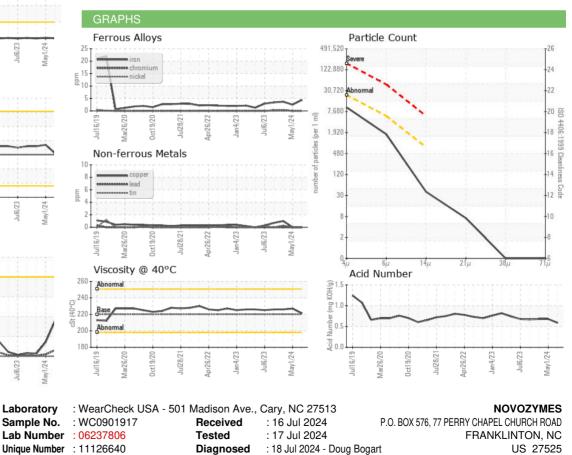








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	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 PROPER1	ΓIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	221	227	226
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						



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

* - 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)

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