

OIL ANALYSIS REPORT

Area **Utility** Amarillo Gear Co FEH85AH04 Cooling T Gearbox Fluid

JAX FGG-AW ISO 220 (5 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.

g Tower, Cell	/ Fan					
		0ct7013 Feb2	020 Aug2020 Mar2021 Oct2	021 Apr2022 Aug2022 May2023 Sep2	073 May2024	
			ore magnete marcer out	ar marter marter marters our	and maker i	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0916403	WC0822442	WC0774910
Sample Date		Client Info		16 May 2024	27 Sep 2023	05 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				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	4	2	1
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		0	0	<1
Lead	ppm	ASTM D5185m	>100	0	<1	<1
Copper	ppm	ASTM D5185m	>200	0	0	0
Tin	ppm	ASTM D5185m	>25	0	0	<1
Vanadium Cadmium	ppm	ASTM D5185m ASTM D5185m		0	0	0
	ppm			-	-	-
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		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		1	0	<1
	ppm	ASTM D5185m		4 691	0	0
Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m		73	618 219	597 200
Sulfur	ppm ppm	ASTM D5185m		728	612	677
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>50	1 0	1 0	<1 0
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water	%	ASTM D5185III		0.001	0.001	0.008
ppm Water	ppm	ASTM D6304 ASTM D6304	>2002	9	9.1	89.3
FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4µm	00	ASTM D7647	>20000	16878	11570	9683
Particles >4µm		ASTM D7647 ASTM D7647		659	1162	1756
Particles >14µm		ASTM D7647 ASTM D7647	>640	19	34	117
Particles >21µm		ASTM D7647		4	8	23
Particles >38µm		ASTM D7647	>40	0	1	1
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/17/11	21/17/12	20/18/14
		method	limit/base	current	history1	history2
FLUID DEGRADA		methou	III IIII Uase	curreni	I II SLOIVI	nistorvz

0.68

Sample Rating Trend

NORMAL

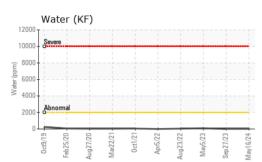
Acid Number (AN)

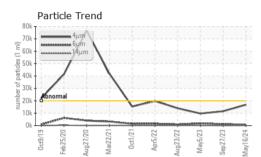
mg KOH/g ASTM D8045

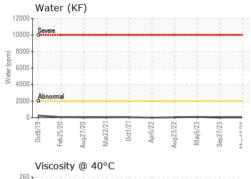
^{0.34} 0.34

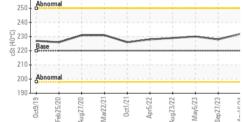


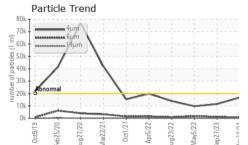
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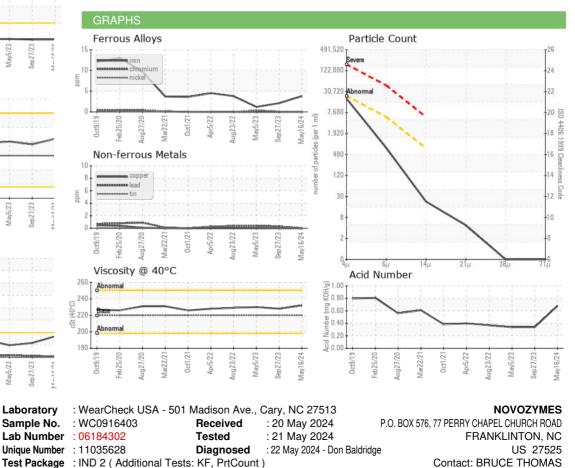


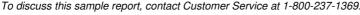




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	232	228	230
SAMPLE IMAGES		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)

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Certificate 12367

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