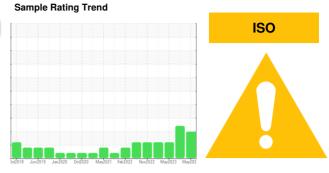


OIL ANALYSIS REPORT

North Plant-Fermentation AG1760E

Gearbox

ROYAL PURPLE SYNFILM GT 320 (20 GAL)



DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Inspect/change breather if applicable. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

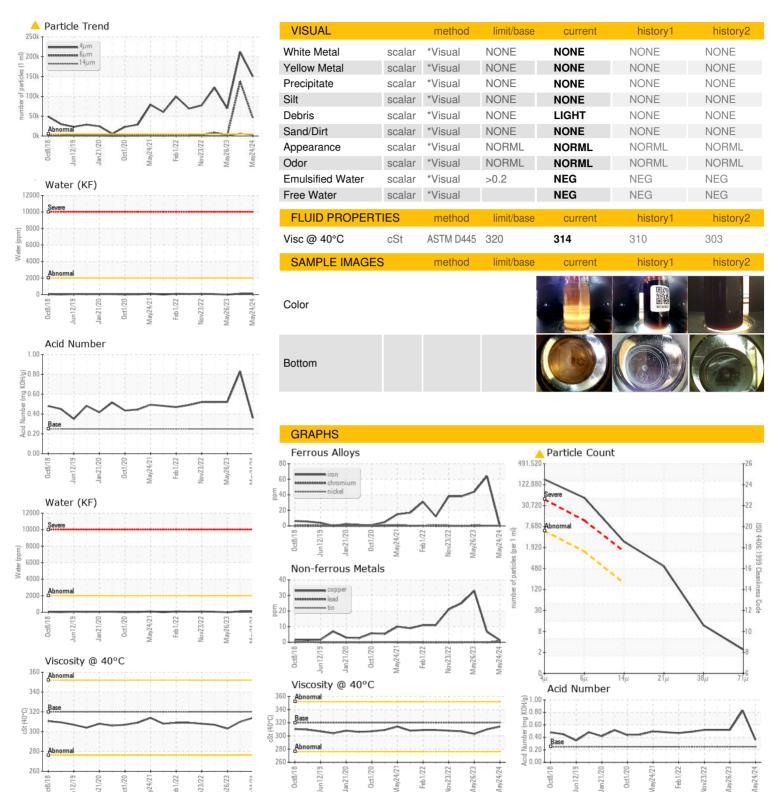
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0941388	WC0850048	WC0804702
Sample Date		Client Info		24 May 2024	24 Jan 2024	26 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	<1	64	44
Chromium	ppm	ASTM D5185m	>10	<1	<1	0
Nickel	ppm	ASTM D5185m	>10	<1	<1	1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	2	0
Lead	ppm	ASTM D5185m	>50	<1	0	<1
Copper	ppm	ASTM D5185m	>200	1	7	33
Tin	ppm	ASTM D5185m	>10	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		<1	0	0
Molybdenum	ppm	ASTM D5185m		1	0	<1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	90	8	4	9
Calcium	ppm	ASTM D5185m		21	<1	0
Phosphorus	ppm	ASTM D5185m		222	142	23
Zinc	ppm	ASTM D5185m		25	23	4
Sulfur	ppm	ASTM D5185m		30069	31752	21092
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	6	20	18
Sodium	ppm	ASTM D5185m		7	0	0
Potassium	ppm	ASTM D5185m	>20	3	<1	<1
Water	%	ASTM D6304	>0.2	0.008	0.010	0.00
ppm Water	ppm	ASTM D6304	>2000	80	107	0.00
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	149712	<u> </u>	△ 69696
Particles >6µm		ASTM D7647	>1300	44617	△ 137755	<u>△</u> 2230
Particles >14µm		ASTM D7647	>160	2484	△ 6018	37
Particles >21μm		ASTM D7647	>40	494	4 903	9
Particles >38µm		ASTM D7647	>10	10	<u>^</u> 26	0
Particles >71μm		ASTM D7647	>3	2	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	24/23/18	<u>△</u> 25/24/20	△ 23/18/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	0.36	0.83	0.52



OIL ANALYSIS REPORT







Laboratory Sample No.

Lab Number : 06195446 Unique Number : 11057569 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0941388

Received : 30 May 2024 Tested : 31 May 2024

Diagnosed : 31 May 2024 - Angela Borella

Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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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US 52553 Contact: Alan Brittain brittaina@ajiusa.com

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