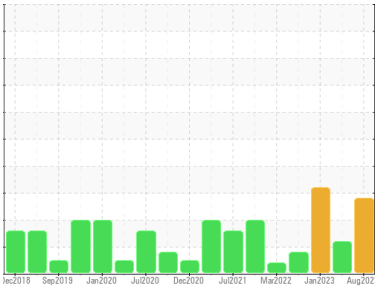
PROBLEM SUMMARY

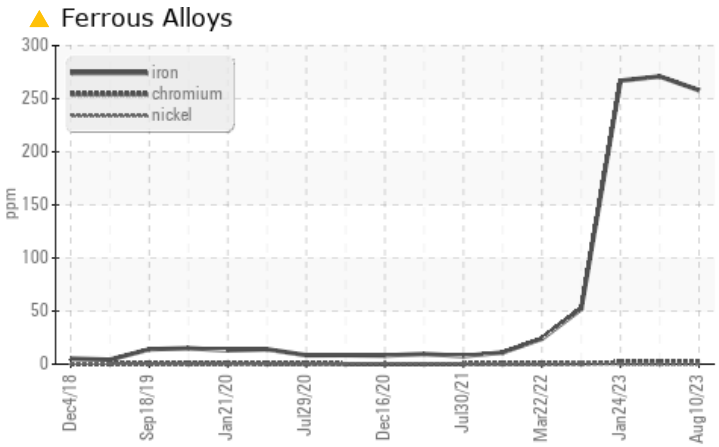
Sample Rating Trend



WATER

Area
North Plant-Granulation
Machine Id
ME-2643B
Component
Gearbox
Fluid
HIGH PERFORMANCE LUBRICANTS GEAR LIFE 320 (15 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>200	▲ **258**	▲ 271	▲ 267
Debris	scalar	*Visual	NONE	▲ **MODER**	▲ MODER	LIGHT
Free Water	scalar	*Visual		▲ **1.0**	NEG	NEG

Customer Id: AJIEDD
Sample No.: WC0804711
Lab Number: 05926125
Test Package: PLANT

To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

21 Mar 2023 Diag: Doug Bogart

WEAR

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.Gear wear is indicated. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

24 Jan 2023 Diag: Don Baldridge

WEAR

We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition.The iron level is abnormal. Gear wear is indicated. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

27 Jul 2022 Diag: Doug Bogart

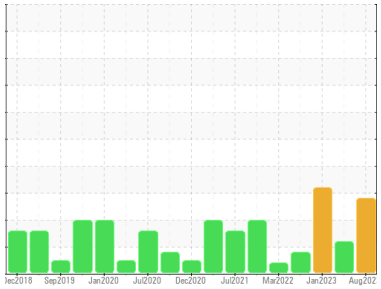
ISO

No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
North Plant-Granulation
Machine Id
ME-2643B
Component
Gearbox
Fluid
HIGH PERFORMANCE LUBRICANTS GEAR LIFE 320 (15 GAL)

DIAGNOSIS

Recommendation
We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear
Gear wear is indicated.

Contamination
Free water present. Moderate concentration of visible dirt/debris 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 INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0804711**	WC0786768	WC0765986
Sample Date		Client Info		**10 Aug 2023**	21 Mar 2023	24 Jan 2023
Machine Age	mths	Client Info		**0**	0	0
Oil Age	mths	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	▲ **258**	▲ 271	▲ 267
Chromium	ppm	ASTM D5185m	>15	**2**	2	2
Nickel	ppm	ASTM D5185m	>15	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**0**	1	0
Lead	ppm	ASTM D5185m	>100	**<1**	0	0
Copper	ppm	ASTM D5185m	>200	**<1**	<1	<1
Tin	ppm	ASTM D5185m	>25	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

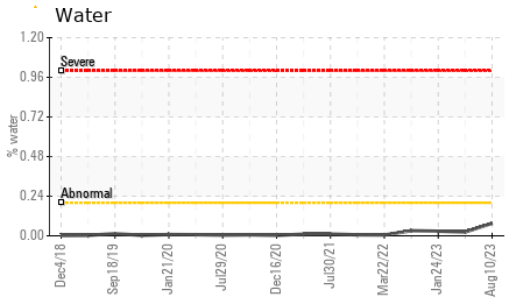
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**<1**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	<1	<1
Manganese	ppm	ASTM D5185m		**1**	<1	<1
Magnesium	ppm	ASTM D5185m		**2**	<1	0
Calcium	ppm	ASTM D5185m		**6**	0	0
Phosphorus	ppm	ASTM D5185m		**125**	157	161
Zinc	ppm	ASTM D5185m		**63**	77	74
Sulfur	ppm	ASTM D5185m		**24361**	19848	21185

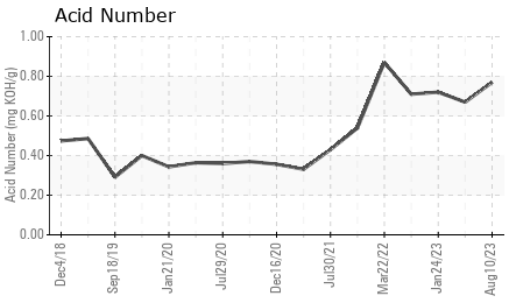
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**5**	5	3
Sodium	ppm	ASTM D5185m		**0**	0	0
Potassium	ppm	ASTM D5185m	>20	**1**	1	<1
Water	%	ASTM D6304	>0.2	**0.076**	0.023	0.028
ppm Water	ppm	ASTM D6304	>2000	**758**	237.2	289.6

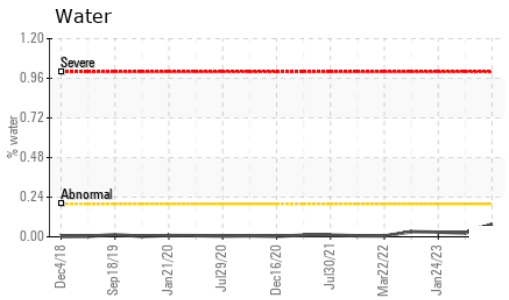
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	**---**	---	▲ 169969
Particles >6µm		ASTM D7647	>1300	**---**	---	▲ 67887
Particles >14µm		ASTM D7647	>160	**---**	---	▲ 3270
Particles >21µm		ASTM D7647	>40	**---**	---	▲ 815
Particles >38µm		ASTM D7647	>10	**---**	---	▲ 90
Particles >71µm		ASTM D7647	>3	**---**	---	2
Oil Cleanliness		ISO 4406 (c)	>19/17/14	**---**	---	▲ 25/23/19

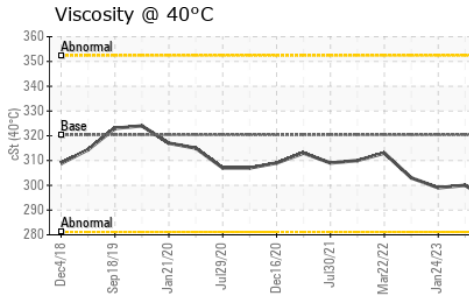
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.77**	0.67	0.72

OIL ANALYSIS REPORT



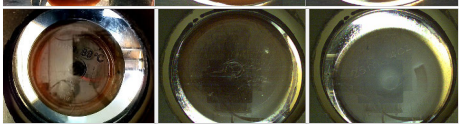




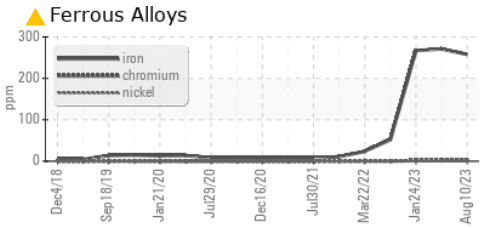


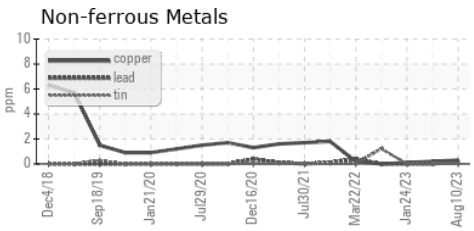
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	▲ **MODER**	▲ MODER	LIGHT
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	**0.2%**	NEG	NEG
Free Water	scalar	*Visual		▲ **1.0**	NEG	NEG

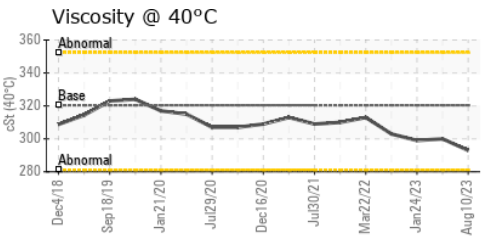
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320.4	**293**	300	299

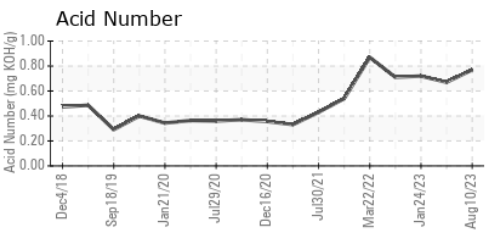
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0804711
Lab Number : 05926125
Unique Number : 10606072
Test Package : PLANT

Received : 16 Aug 2023
Diagnosed : 17 Aug 2023
Diagnostician : Jonathan Hester

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)

AJINOMOTO ANIMAL NUTRITION NORTH AMERICA, INC.
1116 HWY 137
EDDYVILLE, IA
US 52553
Contact: Alan Brittain
brittaina@ajiusa.com
T: (641)295-0086
F: