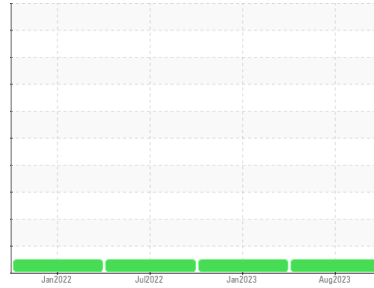




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
North Plant-Purification
 Machine Id
AG-32517

Component
Gear Reducer
 Fluid
ROYAL PURPLE SYNFILM GT 320 (30 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

Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0786778	WC0765959	WC0527596
Sample Date	Client Info	10 Aug 2023	20 Jan 2023	06 Jul 2022
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	>250	3	4	2
Chromium ppm ASTM D5185m	>5	0	0	0
Nickel ppm ASTM D5185m	>5	0	0	0
Titanium ppm ASTM D5185m		0	0	0
Silver ppm ASTM D5185m		0	0	6
Aluminum ppm ASTM D5185m	>20	0	0	0
Lead ppm ASTM D5185m	>50	0	0	0
Copper ppm ASTM D5185m	>50	<1	<1	<1
Tin ppm ASTM D5185m	>5	0	0	<1
Antimony ppm ASTM D5185m	>5	---	---	---
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	2	0
Molybdenum ppm ASTM D5185m		0	0	0
Manganese ppm ASTM D5185m		<1	<1	<1
Magnesium ppm ASTM D5185m	90	62	85	56
Calcium ppm ASTM D5185m		<1	1	<1
Phosphorus ppm ASTM D5185m		6	10	13
Zinc ppm ASTM D5185m		5	6	3
Sulfur ppm ASTM D5185m		19963	18024	17453

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>60	<1	2	<1
Sodium ppm ASTM D5185m		0	0	0
Potassium ppm ASTM D5185m	>20	1	1	0
Water % ASTM D6304	>0.2	0.024	0.012	0.027
ppm Water ppm ASTM D6304	>2000	243.0	129.9	270.0

FLUID CLEANLINESS

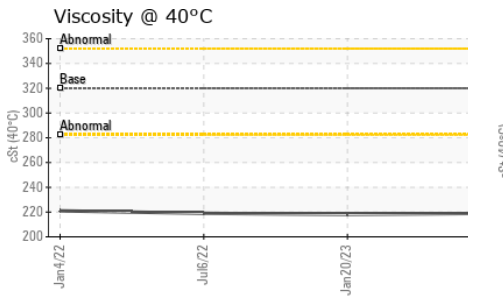
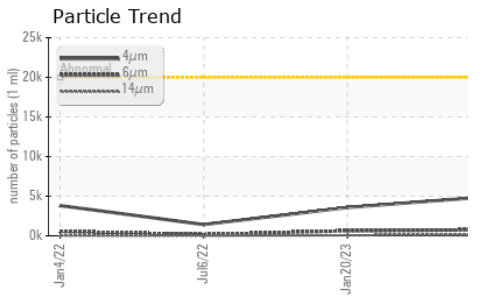
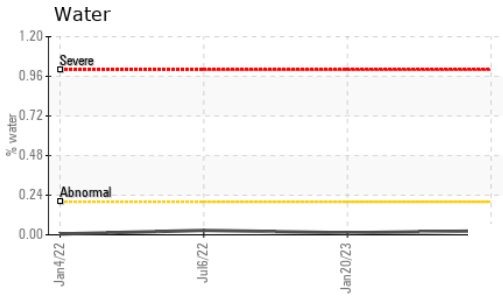
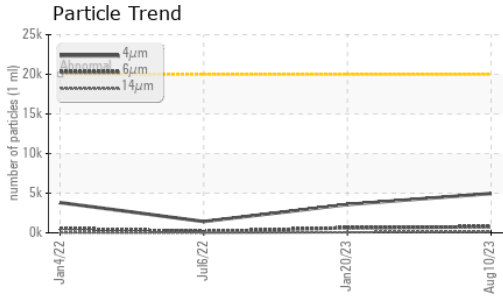
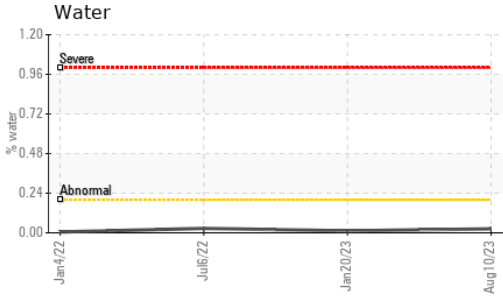
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>20000	4961	3577	1424
Particles >6µm ASTM D7647	>5000	766	631	144
Particles >14µm ASTM D7647	>640	93	69	18
Particles >21µm ASTM D7647	>160	25	21	7
Particles >38µm ASTM D7647	>40	1	1	1
Particles >71µm ASTM D7647	>10	0	0	0
Oil Cleanliness ISO 4406 (c)	>21/19/16	19/17/14	19/16/13	18/14/11

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	0.25	0.47	0.39	0.46



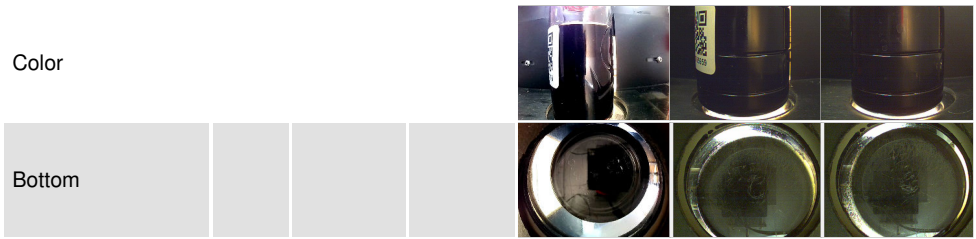
OIL ANALYSIS REPORT



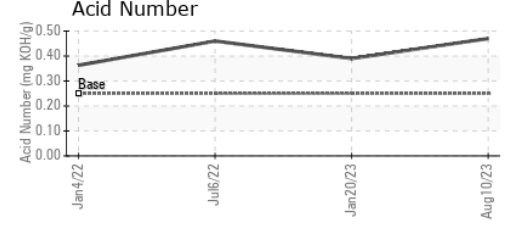
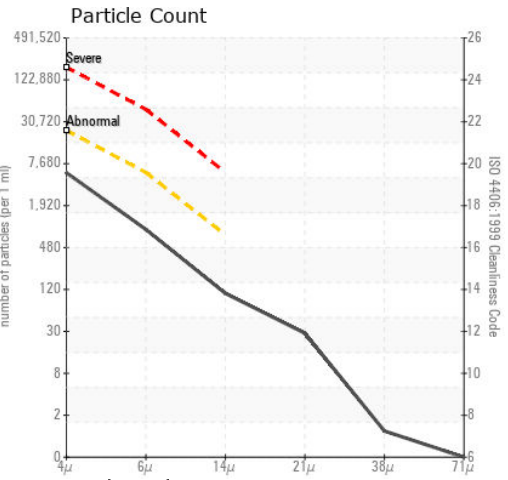
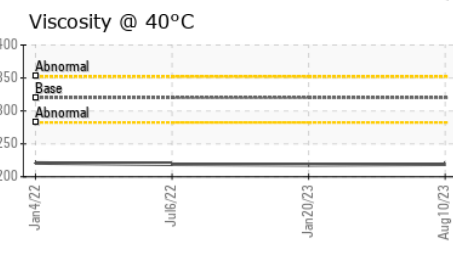
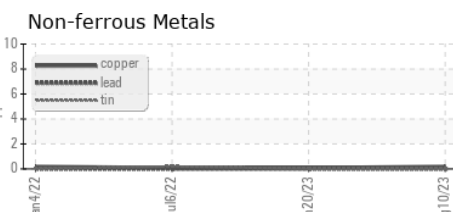
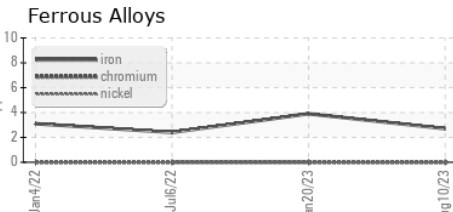
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	219	218

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0786778 **Received** : 16 Aug 2023
Lab Number : 05926124 **Diagnosed** : 17 Aug 2023
Unique Number : 10606071 **Diagnostician** : Doug Bogart
Test Package : PLANT

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

Certificate L2367
 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)