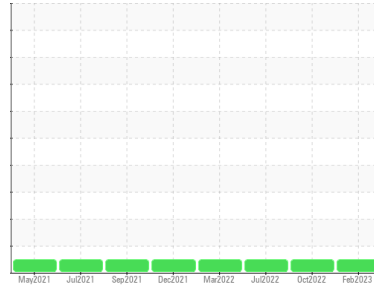




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Fermentation
 Machine Id
1304-D SEED TANK
 Component
Agitator Gearbox
 Fluid
Mobilgear 629 (15 QTS)

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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0752485	WC0724720	WC0723558
Sample Date	Client Info	03 Feb 2023	13 Oct 2022	18 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	>150	3	<1	2
Chromium ppm ASTM D5185m	>10	<1	0	0
Nickel ppm ASTM D5185m	>10	<1	0	0
Titanium ppm ASTM D5185m		0	<1	0
Silver ppm ASTM D5185m		0	0	0
Aluminum ppm ASTM D5185m	>25	3	4	0
Lead ppm ASTM D5185m	>100	0	2	0
Copper ppm ASTM D5185m	>50	0	0	0
Tin ppm ASTM D5185m	>10	0	<1	<1
Vanadium ppm ASTM D5185m		0	<1	0
Cadmium ppm ASTM D5185m		0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		19	17	31
Barium ppm ASTM D5185m		0	0	0
Molybdenum ppm ASTM D5185m		0	0	0
Manganese ppm ASTM D5185m		<1	<1	0
Magnesium ppm ASTM D5185m		1	5	0
Calcium ppm ASTM D5185m		2	0	<1
Phosphorus ppm ASTM D5185m		331	349	280
Zinc ppm ASTM D5185m		7	5	5
Sulfur ppm ASTM D5185m		17483	17765	14607

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>50	<1	<1	<1
Sodium ppm ASTM D5185m		<1	1	<1
Potassium ppm ASTM D5185m	>20	6	10	8
Water % ASTM D6304	>0.1	0.009	0.010	0.011
ppm Water ppm ASTM D6304	>1000	93.1	109.7	117.6

FLUID CLEANLINESS

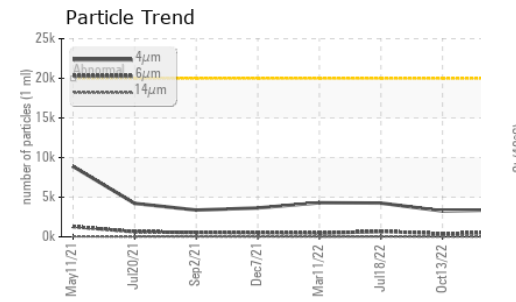
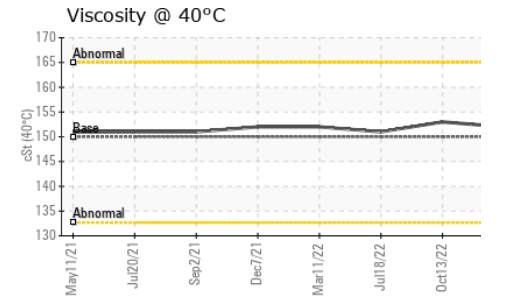
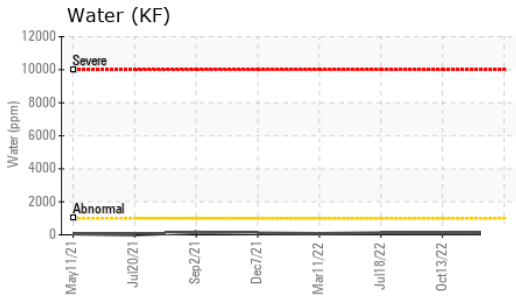
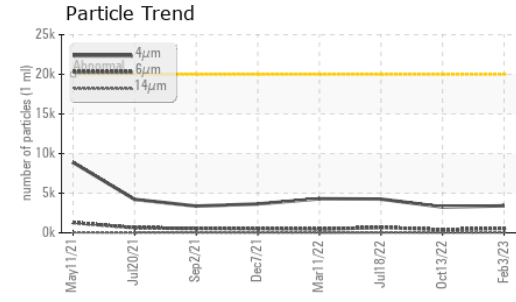
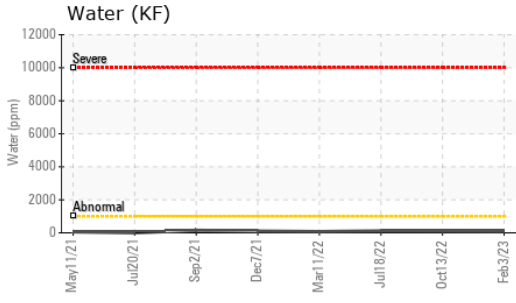
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>20000	3410	3264	4257
Particles >6µm ASTM D7647	>5000	562	393	677
Particles >14µm ASTM D7647	>640	29	22	40
Particles >21µm ASTM D7647	>160	6	6	8
Particles >38µm ASTM D7647	>40	1	0	1
Particles >71µm ASTM D7647	>10	0	0	0
Oil Cleanliness ISO 4406 (c)	>21/19/16	19/16/12	19/16/12	19/17/12

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		0.74	0.88	0.74



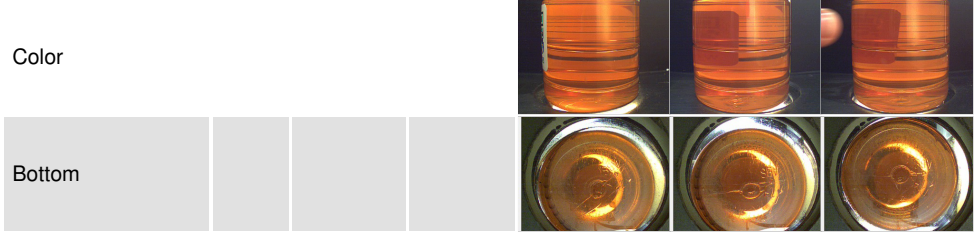
OIL ANALYSIS REPORT



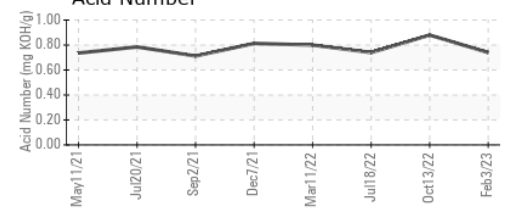
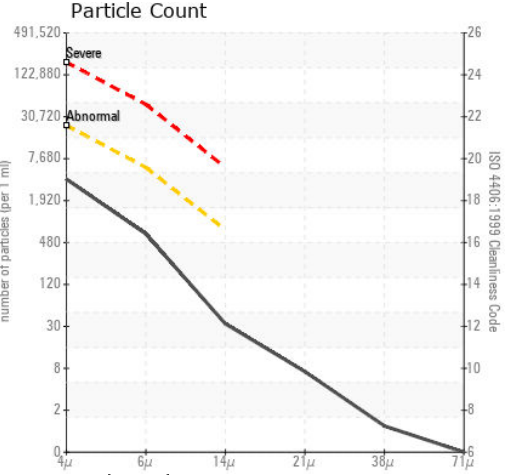
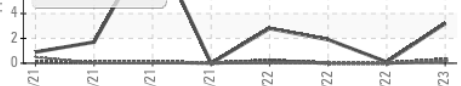
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	152	153

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0752485 **Received** : 07 Feb 2023
Lab Number : 05761366 **Diagnosed** : 08 Feb 2023
Unique Number : 10325973 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PrtCount)

AJINOMOTO USA
 4020 AJINOMOTO DRIVE
 RALEIGH, NC
 US 27610
 Contact: Michael Thompson
 thompsonm@ajiusa.com
 T: (919)723-2142
 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)