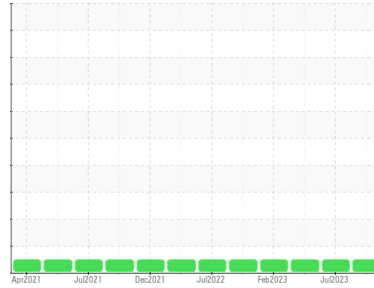




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**Fermentation**  
 Machine Id  
**1304-C SEED TANK (S/N 93/8194758003)**  
 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 component. The amount and size of particulates present in the system is 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	<b>WC0845102</b>	WC0810785	WC0784173
Sample Date	Client Info	<b>20 Oct 2023</b>	14 Jul 2023	28 Apr 2023
Machine Age	hrs Client Info	<b>0</b>	0	0
Oil Age	hrs Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>150	<b>0</b>	<1	1
Chromium ppm ASTM D5185m	>10	<b>0</b>	0	0
Nickel ppm ASTM D5185m	>10	<b>0</b>	0	0
Titanium ppm ASTM D5185m		<b>0</b>	0	0
Silver ppm ASTM D5185m		<b>0</b>	0	0
Aluminum ppm ASTM D5185m	>25	<b>0</b>	0	0
Lead ppm ASTM D5185m	>100	<b>0</b>	0	0
Copper ppm ASTM D5185m	>50	<b>0</b>	0	0
Tin ppm ASTM D5185m	>10	<b>0</b>	0	0
Vanadium ppm ASTM D5185m		<b>0</b>	0	0
Cadmium ppm ASTM D5185m		<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		<b>8</b>	13	10
Barium ppm ASTM D5185m		<b>0</b>	0	0
Molybdenum ppm ASTM D5185m		<b>0</b>	0	0
Manganese ppm ASTM D5185m		<b>0</b>	0	0
Magnesium ppm ASTM D5185m		<b>0</b>	0	<1
Calcium ppm ASTM D5185m		<b>0</b>	0	0
Phosphorus ppm ASTM D5185m		<b>296</b>	375	322
Zinc ppm ASTM D5185m		<b>0</b>	0	2
Sulfur ppm ASTM D5185m		<b>13507</b>	19506	15238

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>50	<b>0</b>	0	0
Sodium ppm ASTM D5185m		<b>0</b>	0	0
Potassium ppm ASTM D5185m	>20	<b>0</b>	1	2
Water % ASTM D6304	>0.1	<b>0.010</b>	0.008	0.010
ppm Water ppm ASTM D6304	>1000	<b>106.4</b>	87.9	105.0

## FLUID CLEANLINESS

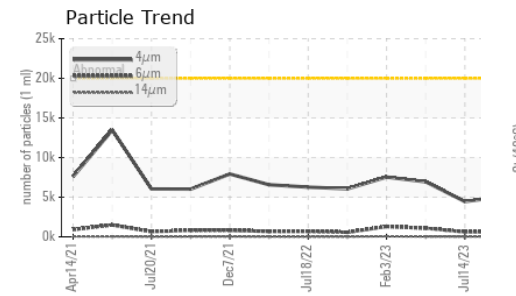
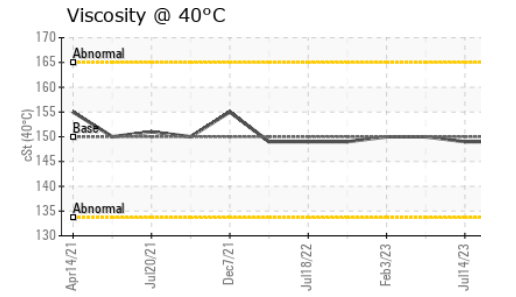
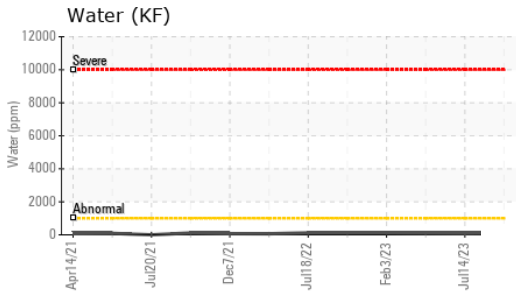
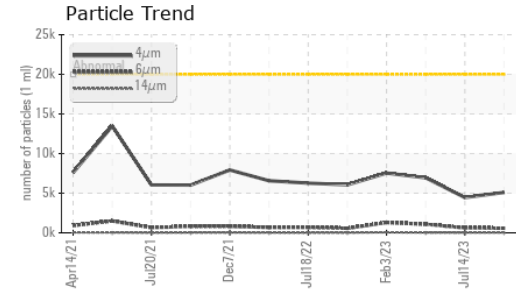
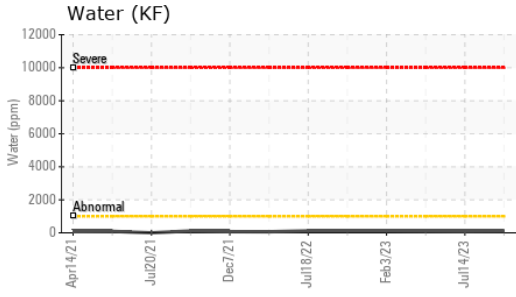
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>20000	<b>5097</b>	4449	6944
Particles >6µm ASTM D7647	>5000	<b>581</b>	607	1086
Particles >14µm ASTM D7647	>640	<b>23</b>	25	33
Particles >21µm ASTM D7647	>160	<b>6</b>	7	5
Particles >38µm ASTM D7647	>40	<b>0</b>	0	0
Particles >71µm ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness ISO 4406 (c)	>21/19/16	<b>20/16/12</b>	19/16/12	20/17/12

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		<b>0.78</b>	0.78	0.76



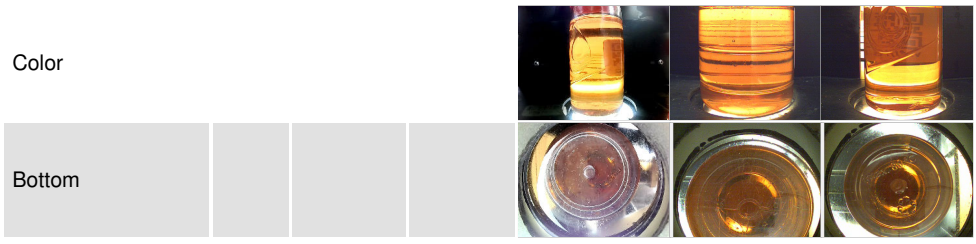
# OIL ANALYSIS REPORT



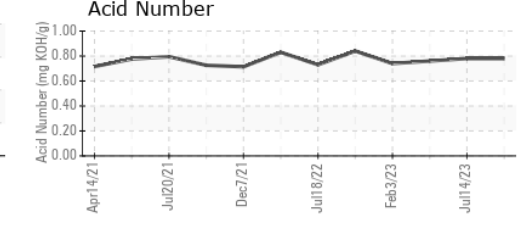
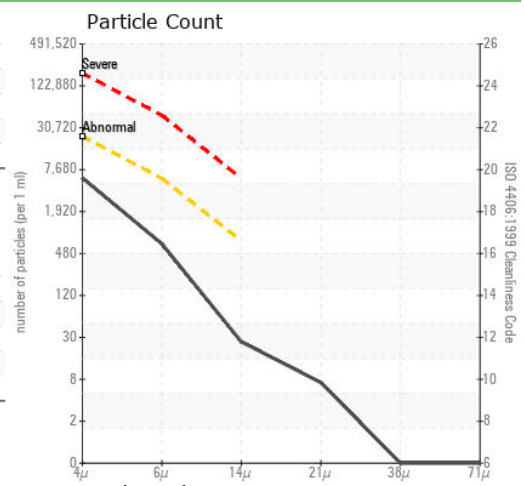
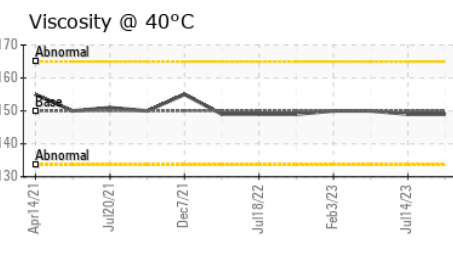
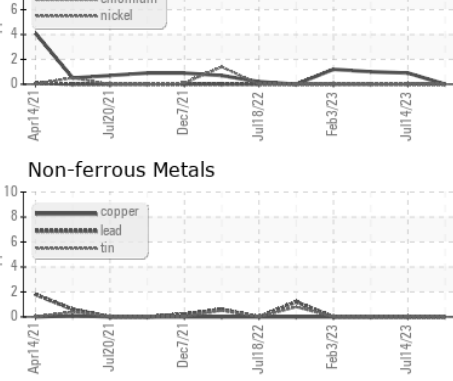
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	149	150

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0845102      **Received** : 03 Nov 2023  
**Lab Number** : 05998428      **Diagnosed** : 07 Nov 2023  
**Unique Number** : 10726788      **Diagnostician** : Don Baldrige  
**Test Package** : PLANT

**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)