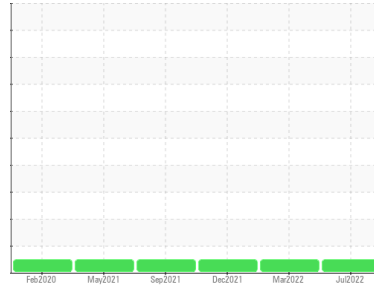




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**P2**  
 Machine Id  
**3543-A - 3540A CRYSTALLIZER**  
 Component  
**Gearbox**  
 Fluid  
**MOBIL MOBILGEAR 600 XP ISO 150 (44 QTS)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness 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>WC0723564</b>	WC0681502	WC0647275
Sample Date	Client Info	<b>28 Jul 2022</b>	29 Mar 2022	07 Dec 2021
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 >200	<b>0</b>	<1	<1
Chromium	ppm ASTM D5185m >15	<b>0</b>	0	0
Nickel	ppm ASTM D5185m >15	<b>0</b>	0	0
Titanium	ppm ASTM D5185m	<b>0</b>	0	0
Silver	ppm ASTM D5185m	<b>&lt;1</b>	1	<1
Aluminum	ppm ASTM D5185m >25	<b>0</b>	0	0
Lead	ppm ASTM D5185m >100	<b>0</b>	0	<1
Copper	ppm ASTM D5185m >200	<b>0</b>	0	0
Tin	ppm ASTM D5185m >25	<b>3</b>	0	0
Antimony	ppm ASTM D5185m	<b>---</b>	---	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>14</b>	28	26
Barium	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Molybdenum	ppm ASTM D5185m	<b>0</b>	0	0
Manganese	ppm ASTM D5185m	<b>0</b>	0	<1
Magnesium	ppm ASTM D5185m	<b>3</b>	0	0
Calcium	ppm ASTM D5185m	<b>0</b>	0	0
Phosphorus	ppm ASTM D5185m	<b>311</b>	375	318
Zinc	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Sulfur	ppm ASTM D5185m	<b>13197</b>	11135	10303

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	<b>0</b>	<1	<1
Sodium	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Potassium	ppm ASTM D5185m >20	<b>0</b>	0	0
Water	% ASTM D6304 >0.2	<b>0.011</b>	0.002	0.003
ppm Water	ppm ASTM D6304 >2000	<b>119.0</b>	20.5	29.4

## FLUID CLEANLINESS

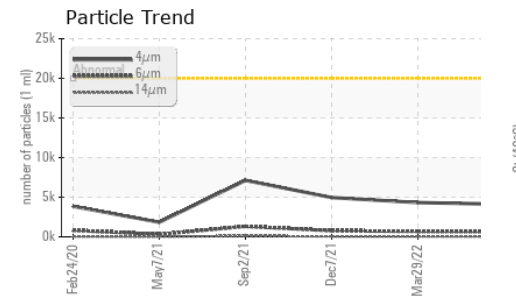
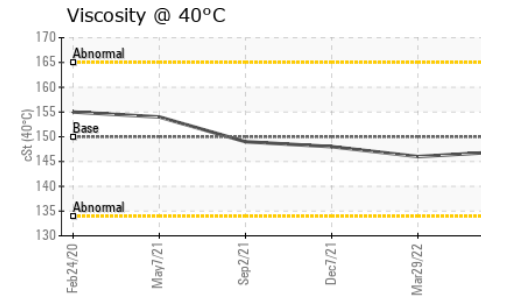
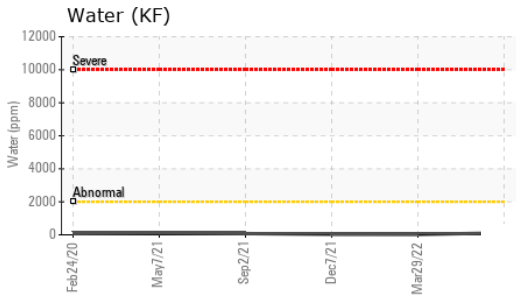
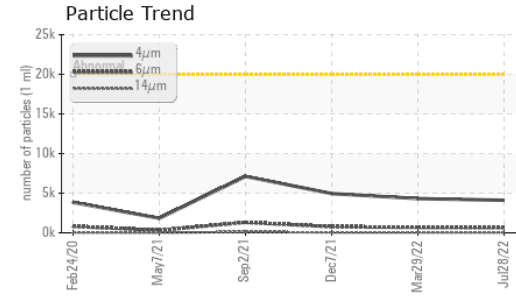
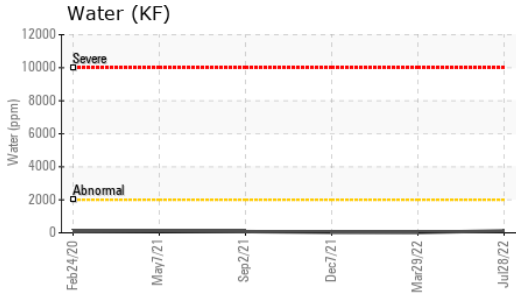
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >20000	<b>4112</b>	4320	4954
Particles >6µm	ASTM D7647 >5000	<b>670</b>	690	763
Particles >14µm	ASTM D7647 >640	<b>42</b>	46	46
Particles >21µm	ASTM D7647 >160	<b>9</b>	13	12
Particles >38µm	ASTM D7647 >40	<b>1</b>	2	0
Particles >71µm	ASTM D7647 >10	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >21/19/16	<b>19/17/13</b>	19/17/13	19/17/13

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	<b>0.76</b>	0.778	0.702



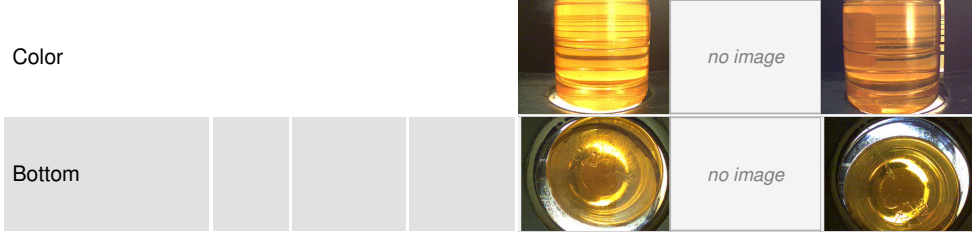
# OIL ANALYSIS REPORT



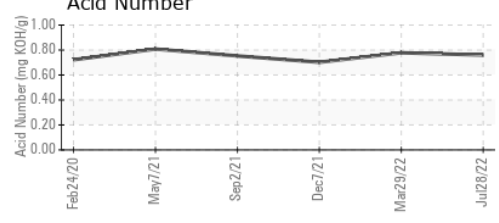
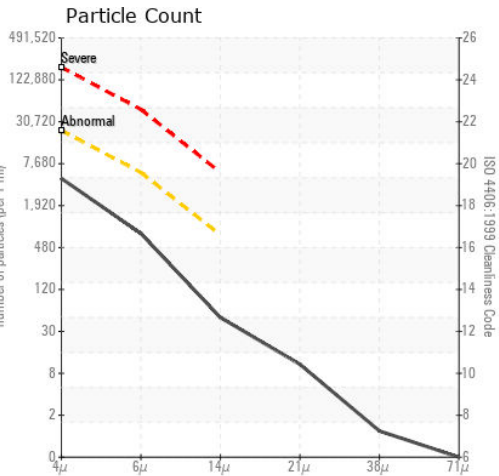
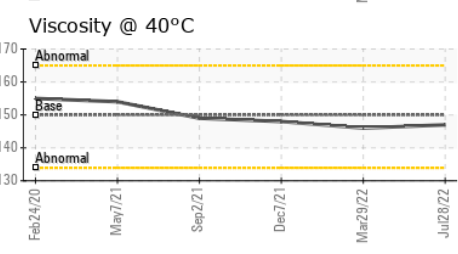
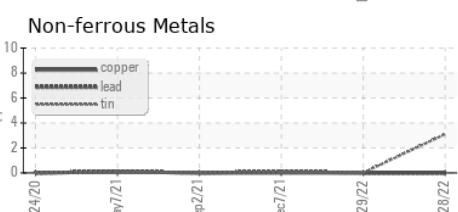
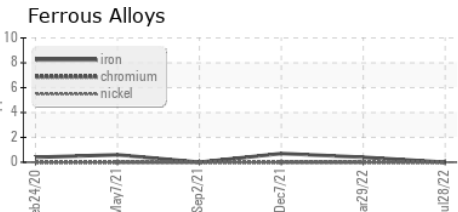
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	147	146

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0723564 **Received** : 29 Jul 2022  
**Lab Number** : 05604440 **Diagnosed** : 01 Aug 2022  
**Unique Number** : 10073921 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**AJINOMOTO USA**  
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 RALEIGH, NC  
 US 27610  
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 thompsonm@ajiusa.com  
 T: (919)723-2142  
 F:

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)