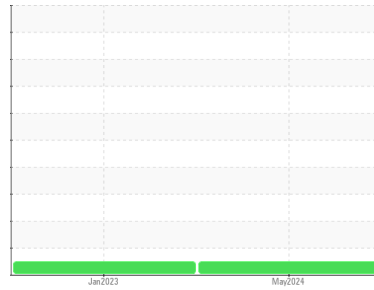




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**88-19**

Machine Id

**Manipulator Cell 130 A1 (S/N SC006898)**

Component

**Planetary**

Fluid

**MOBIL MOBILGEAR 600 XP 220 (--- 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.

### 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>WC0910124</b>	WC0701619	---
Sample Date	Client Info		<b>23 May 2024</b>	03 Jan 2023	---
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>21</b>	26	---
Iron	ppm	ASTM D5185m >150	<b>17</b>	45	---
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	2	---
Nickel	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	<1	---
Lead	ppm	ASTM D5185m >100	<b>1</b>	2	---
Copper	ppm	ASTM D5185m >50	<b>4</b>	10	---
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>56</b>	60	---
Barium	ppm	ASTM D5185m	<b>2</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m	<b>1</b>	3	---
Magnesium	ppm	ASTM D5185m	<b>1</b>	0	---
Calcium	ppm	ASTM D5185m	<b>1</b>	1	---
Phosphorus	ppm	ASTM D5185m	<b>345</b>	428	---
Zinc	ppm	ASTM D5185m	<b>4</b>	4	---
Sulfur	ppm	ASTM D5185m	<b>11043</b>	11535	---

## CONTAMINANTS

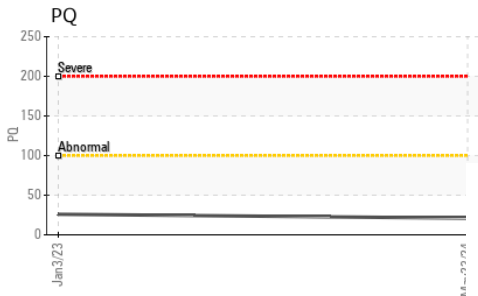
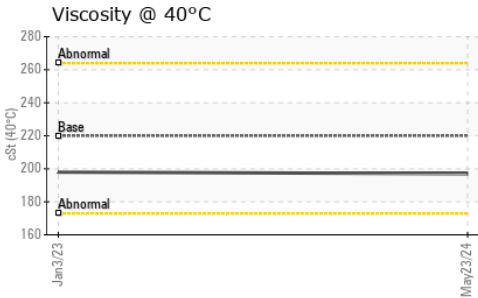
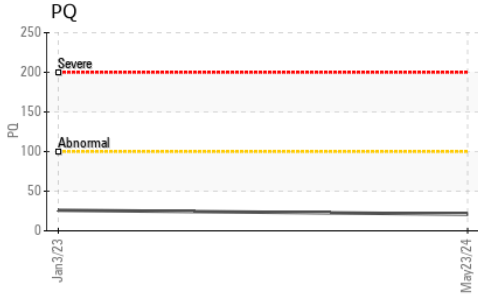
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>2</b>	2	---
Sodium	ppm	ASTM D5185m	<b>2</b>	<1	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	0	---
Water	%	ASTM D6304 >0.1	<b>NEG</b>	NEG	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.85</b>	0.85	---



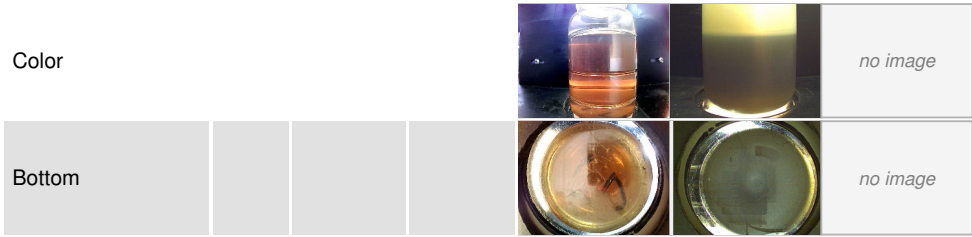
# OIL ANALYSIS REPORT



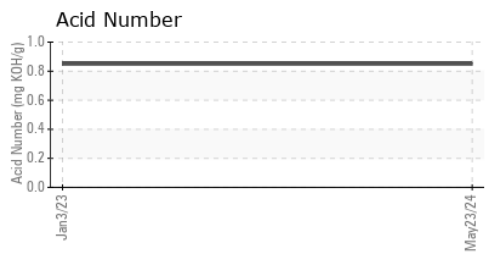
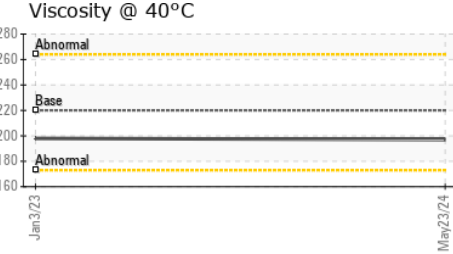
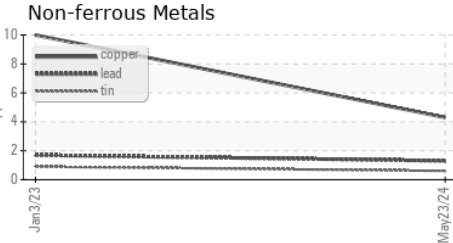
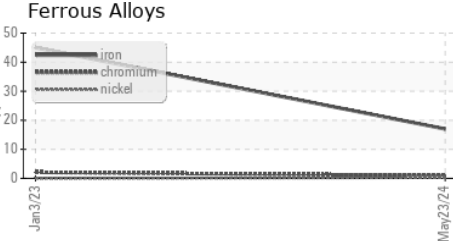
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	220	<b>197</b>	198	---

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



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0910124      **Received** : 31 May 2024  
**Lab Number** : **06196828**      **Tested** : 04 Jun 2024  
**Unique Number** : 11058951      **Diagnosed** : 04 Jun 2024 - Jonathan Hester  
**Test Package** : PLANT

**THE BOEING COMPANY**  
 5400 AIRFRAME DR  
 NORTH CHARLESTON, SC  
 US 29418

Contact: DAN HARRIS  
 DANIEL.R.HARRIS2@BOEING.COM  
 T: (843)730-0805

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)