



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**[L431780]**  
 Machine Id  
**AMERICAN AERO 01002**  
 Component  
**Swing Drive**  
 Fluid  
**GEAR OIL ISO 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>WC0825758</b>	---	---
Sample Date	Client Info	<b>15 Jul 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>400	<b>23</b>	---	---
Chromium ppm ASTM D5185m	>10	<b>0</b>	---	---
Nickel ppm ASTM D5185m	>10	<b>0</b>	---	---
Titanium ppm ASTM D5185m		<b>&lt;1</b>	---	---
Silver ppm ASTM D5185m		<b>0</b>	---	---
Aluminum ppm ASTM D5185m	>25	<b>1</b>	---	---
Lead ppm ASTM D5185m	>50	<b>0</b>	---	---
Copper ppm ASTM D5185m	>200	<b>4</b>	---	---
Tin ppm ASTM D5185m	>10	<b>0</b>	---	---
Vanadium ppm ASTM D5185m		<b>&lt;1</b>	---	---
Cadmium ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m	50	<b>2</b>	---	---
Barium ppm ASTM D5185m	15	<b>0</b>	---	---
Molybdenum ppm ASTM D5185m	15	<b>0</b>	---	---
Manganese ppm ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium ppm ASTM D5185m	50	<b>0</b>	---	---
Calcium ppm ASTM D5185m	50	<b>&lt;1</b>	---	---
Phosphorus ppm ASTM D5185m	350	<b>214</b>	---	---
Zinc ppm ASTM D5185m	100	<b>0</b>	---	---
Sulfur ppm ASTM D5185m	12500	<b>10884</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>50	<b>1</b>	---	---
Sodium ppm ASTM D5185m		<b>&lt;1</b>	---	---
Potassium ppm ASTM D5185m	>20	<b>0</b>	---	---

## FLUID DEGRADATION

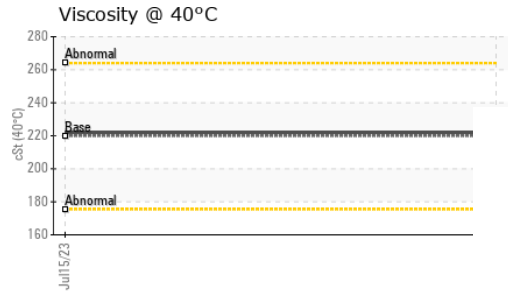
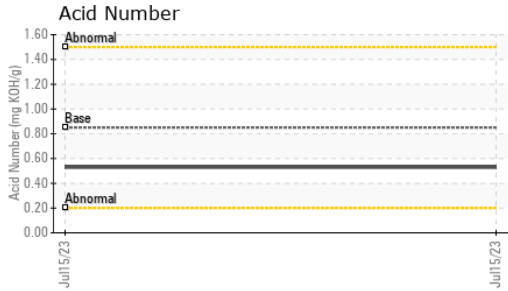
method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	0.85	<b>0.53</b>	---	---

## VISUAL

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



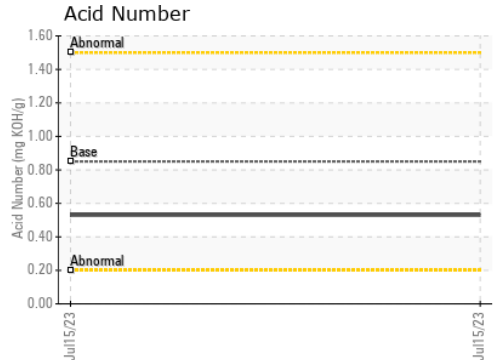
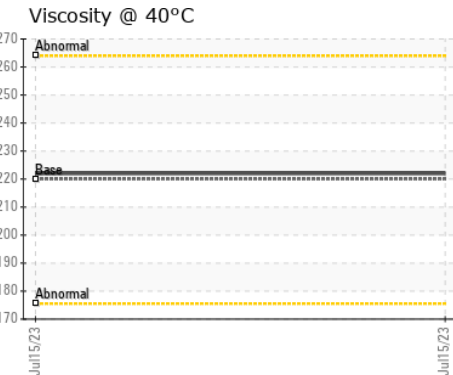
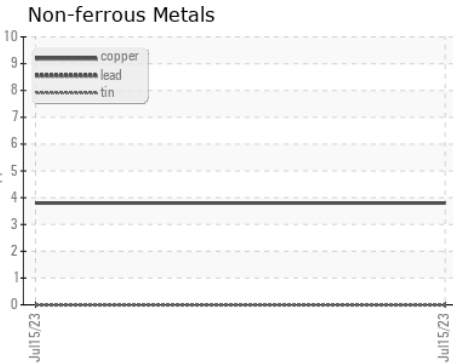
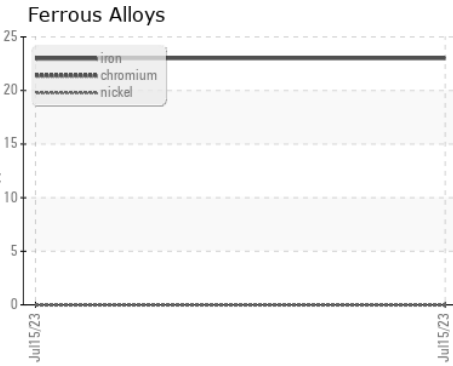
# OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 220	222	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0825758 **Received** : 11 Aug 2023  
**Lab Number** : 05922875 **Diagnosed** : 14 Aug 2023  
**Unique Number** : 10602822 **Diagnostician** : Angela Borella  
**Test Package** : IND 2

**SEATRAX INC**  
 308 GALBERT ROAD  
 LAFAYETTE, LA  
 US 70506  
 Contact: TONY VALLERY  
 tvallery@seatrax.com  
 T: (337)706-7900  
 F: (337)706-7901

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)