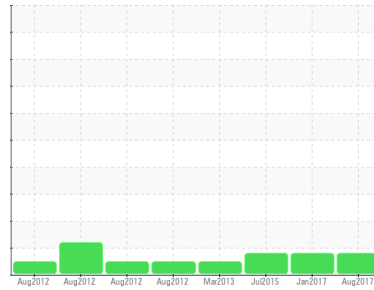


# PROBLEM SUMMARY

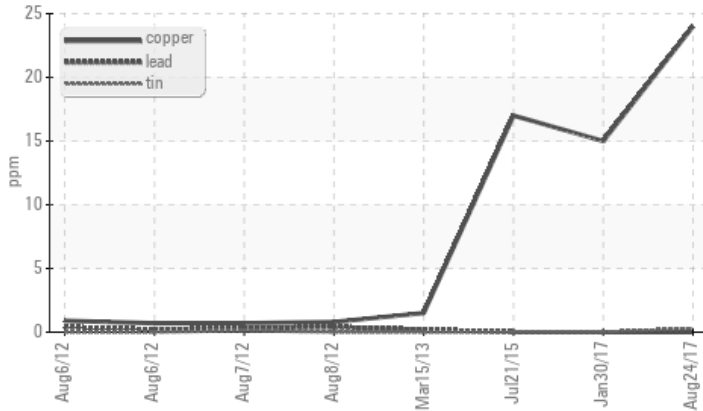
Sample Rating Trend



Machine Id  
**GENERAL ELECTRIC YG-7004 (S/N 155043)**  
 Component  
**Turbine**  
 Fluid  
**ROYAL PURPLE SYNFILM GT 32 (1540 GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Non-ferrous Metals



### RECOMMENDATION

Resample at the next service interval to monitor.

### PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL
Copper	ppm	ASTM D5185m	>5	<b>▲ 24</b>	▲ 15	▲ 17

**Customer Id:** REFESM  
**Sample No.:** RP180553  
**Lab Number:** 04299427  
**Test Package:** IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 30 Jan 2017 Diag: Don Baldrige

#### WEAR



The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 21 Jul 2015 Diag: Jonathan Hester

#### WEAR



The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 15 Mar 2013 Diag: Doug Bogart

#### NORMAL



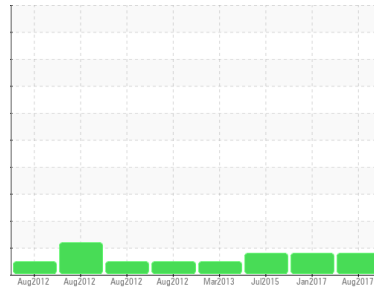
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The condition of oil is suitable for further service.

view report



# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**GENERAL ELECTRIC YG-7004 (S/N 155043)**

Component

**Turbine**

Fluid

**ROYAL PURPLE SYNFILM GT 32 (1540 GAL)**

## DIAGNOSIS

### ▲ Recommendation

Resample at the next service interval to monitor.

### ▲ Wear

The copper level is abnormal. All other 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		<b>RP180553</b>	RP04160809	RP77978
Sample Date	Client Info		<b>24 Aug 2017</b>	30 Jan 2017	21 Jul 2015
Machine Age	hrs	Client Info	<b>172848</b>	168	154488
Oil Age	hrs	Client Info	<b>102768</b>	98	84408
Oil Changed	Client Info		<b>Not Changed</b>	Not Changd	Not Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >15	<1	0	<1
Chromium	ppm	ASTM D5185m >4	0	0	0
Nickel	ppm	ASTM D5185m >2	<1	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	0	0	0
Lead	ppm	ASTM D5185m	0	0	0
Copper	ppm	ASTM D5185m >5	▲ <b>24</b>	▲ 15	▲ 17
Tin	ppm	ASTM D5185m >5	<1	0	0
Antimony	ppm	ASTM D5185m	0	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

## ADDITIVES

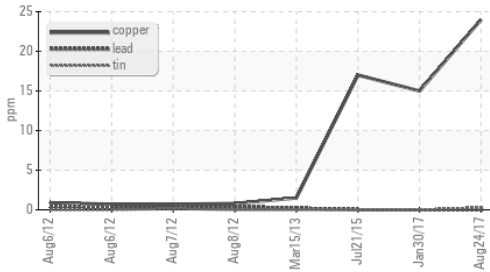
	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<1	0	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	<1	0	0
Manganese	ppm	ASTM D5185m	<1	0	0
Magnesium	ppm	ASTM D5185m	0	0	0
Calcium	ppm	ASTM D5185m	<1	0	0
Phosphorus	ppm	ASTM D5185m	5	4	3
Zinc	ppm	ASTM D5185m	1	0	0

## CONTAMINANTS

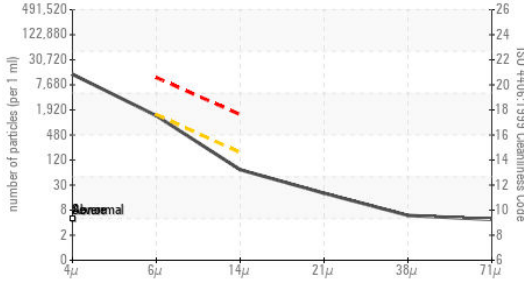
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<1	<1	<1
Sodium	ppm	ASTM D5185m	0	<1	<1
Potassium	ppm	ASTM D5185m >20	<1	0	4
Water	%	ASTM D6304 >0.03	<b>0.007</b>	0.006	0.023
ppm Water	ppm	ASTM D6304 >300	<b>70</b>	60	230

# OIL ANALYSIS REPORT

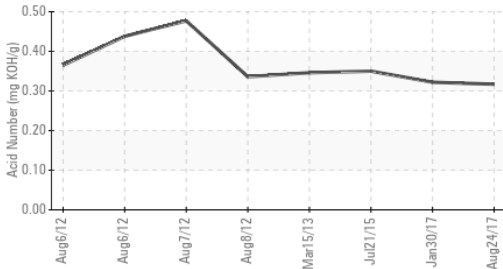
## ▲ Non-ferrous Metals



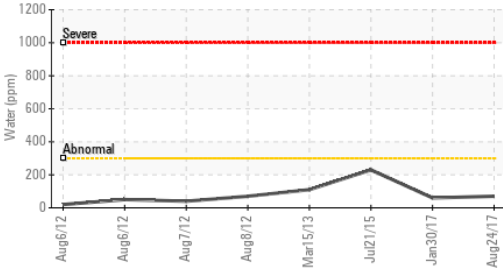
## Particle Count



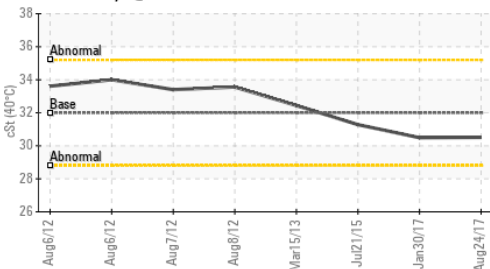
## Acid Number



## Water (KF)



## Viscosity @ 40°C



FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>11978</b>	801	359.
Particles >6µm	ASTM D7647	>1300	<b>1219</b>	195	195.
Particles >14µm	ASTM D7647	>160	<b>62</b>	19	33.
Particles >21µm	ASTM D7647	>40	<b>17</b>	5	11.
Particles >38µm	ASTM D7647	>10	<b>5</b>	0	1.
Particles >71µm	ASTM D7647	>3	<b>4</b>	0	0.
Oil Cleanliness	ISO 4406 (c)	>--/17/14	<b>21/17/13</b>	17/15/11	16/15/12
Particles 5-15µm	count	*NAS 1638 >1300	<b>113017</b>	17095	---
Particles 15-25µm	count	*NAS 1638 >160	<b>3626</b>	1349	---
Particles 25-50µm	count	*NAS 1638 >40	<b>833</b>	516	---
Particles 50-100µm	count	*NAS 1638 >10	<b>74</b>	0	---
Particles >100µm	count	*NAS 1638 >3	<b>409</b>	0	---
NAS Code	*NAS 1638	>--/17/14	<b>11</b>	7	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.317</b>	0.322	0.350

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual NONE	<b>VLITE</b>	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >0.03	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 32	<b>30.51</b>	30.49	31.28

## SAMPLE IMAGES

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



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP180553 **Received** : 07 Sep 2017  
**Lab Number** : **04299427** **Diagnosed** : 11 Sep 2017  
**Unique Number** : 7922965 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PrtCount, PrtCountNAS )

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)

**REFINERIA ESMERALDAS**  
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 EC

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