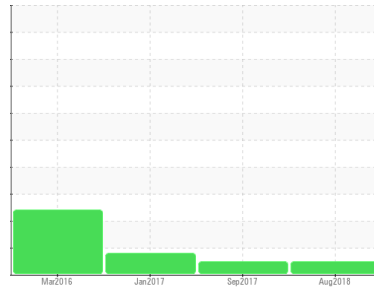




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**GENERAL ELECTRIC YG-7001 (S/N 316X154)**

Component  
**Turbine**

Fluid  
**ROYAL PURPLE SYNFILM GT 32 (3328 GAL)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable. 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	history 1	history 2
Sample Number	Client Info		<b>RP180548</b>	RP180552	RP04160808
Sample Date	Client Info		<b>09 Aug 2018</b>	04 Sep 2017	30 Jan 2017
Machine Age	hrs	Client Info	<b>371872</b>	363736	358768
Oil Age	hrs	Client Info	<b>31952</b>	23816	18848
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	ATTENTION

### WEAR METALS

	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m >15	<1	<1	<1
Chromium	ppm	ASTM D5185m >4	0	0	0
Nickel	ppm	ASTM D5185m >2	0	0	<1
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	0	<1	0
Lead	ppm	ASTM D5185m	<1	0	0
Copper	ppm	ASTM D5185m >5	1	1	<1
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	history 1	history 2
Boron	ppm	ASTM D5185m	<1	1	<1
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0
Manganese	ppm	ASTM D5185m	<1	<1	0
Magnesium	ppm	ASTM D5185m	8	4	27
Calcium	ppm	ASTM D5185m	0	0	0
Phosphorus	ppm	ASTM D5185m	4	2	51
Zinc	ppm	ASTM D5185m	2	2	2

### CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >15	<1	0	<1
Sodium	ppm	ASTM D5185m	0	0	2
Potassium	ppm	ASTM D5185m >20	0	0	0
Water	%	ASTM D6304 >0.03	<b>0.006</b>	0.009	0.029
ppm Water	ppm	ASTM D6304 >300	<b>60</b>	90	290

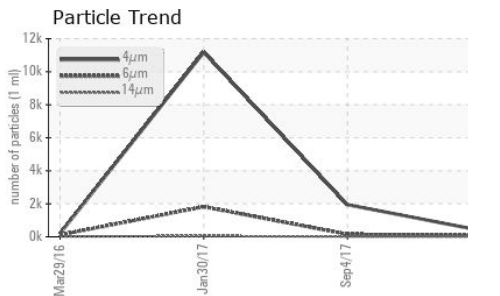
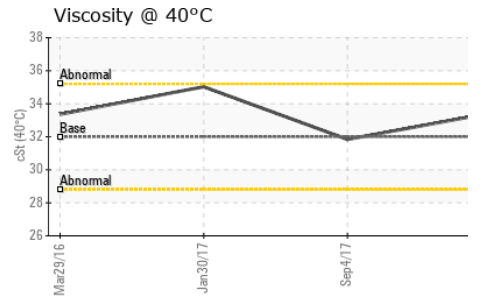
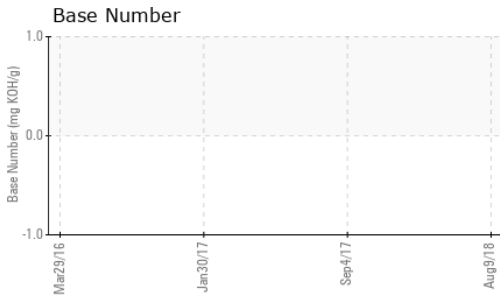
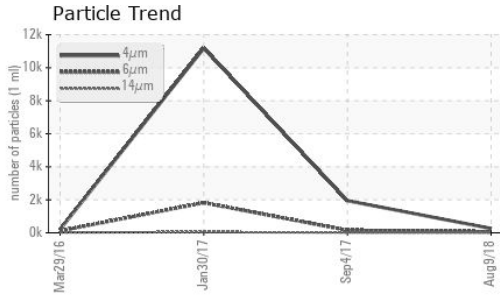
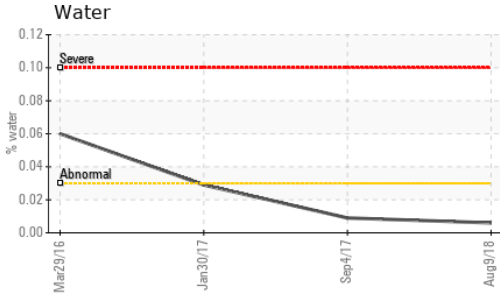
### FLUID CLEANLINESS

	method	limit/base	current	history 1	history 2
Particles >4µm	ASTM D7647		<b>261</b>	1946	11182
Particles >6µm	ASTM D7647	>1300	<b>62</b>	152	▲ 1823
Particles >14µm	ASTM D7647	>160	<b>10</b>	14	43
Particles >21µm	ASTM D7647	>40	<b>4</b>	8	8
Particles >38µm	ASTM D7647	>10	<b>0</b>	5	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	5	0
Oil Cleanliness	ISO 4406 (c)	>--/17/14	<b>15/13/10</b>	18/14/11	▲ 21/18/13

### FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.294</b>	0.197	0.250

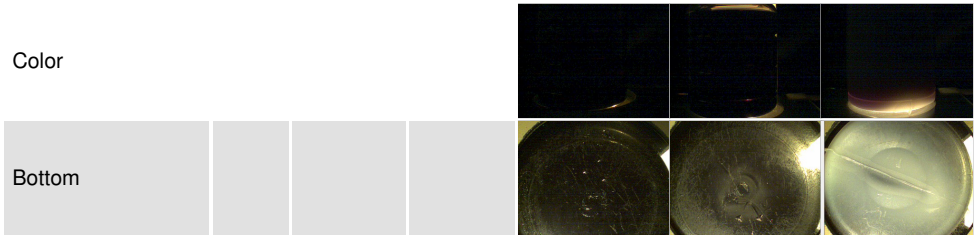
# OIL ANALYSIS REPORT



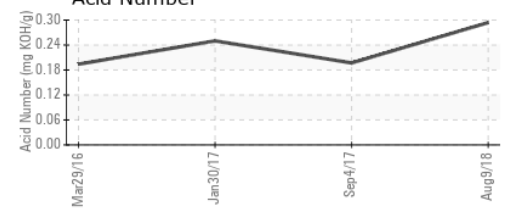
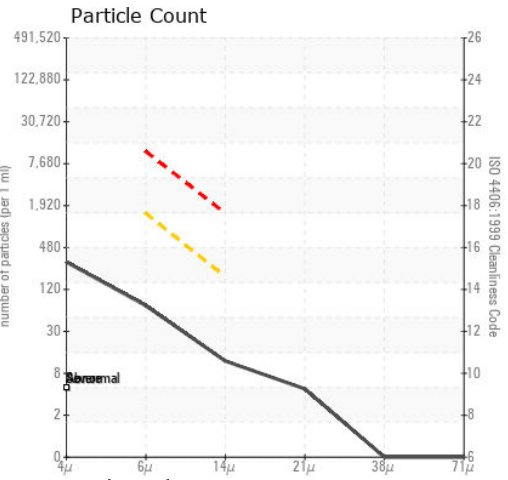
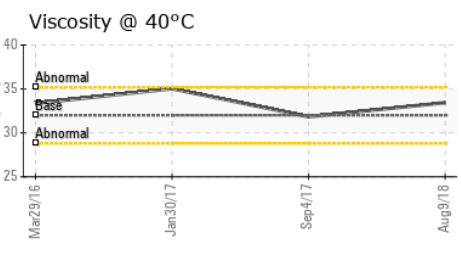
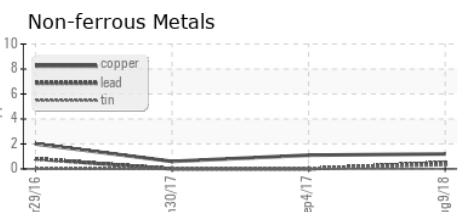
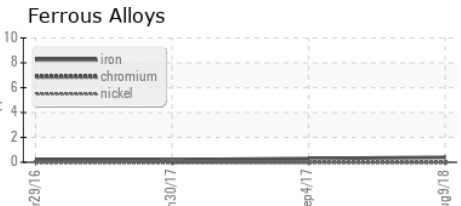
VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.03	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445 32	33.44	31.84	35.03

SAMPLE IMAGES	method	limit/base	current	history 1	history 2
---------------	--------	------------	---------	-----------	-----------



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP180548 **Received** : 05 Sep 2018  
**Lab Number** : 04545255 **Diagnosed** : 07 Sep 2018  
**Unique Number** : 8319087 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: PrtCount, TBN )

**REFINERIA ESMERALDAS**  
 KM 7 1/2 VIA ATACAMES  
 ESMERALDAS,  
 EC  
 Contact: MILTON PALADINES  
 miltonhpr@yahoo.es  
 T:  
 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)