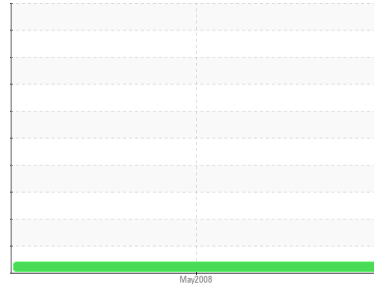




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**SAB2**  
 Machine Id  
**G25 TURBINE OIL SAMPLE #1**  
 Component  
**Turbine**  
 Fluid  
**ESSO TERESSO ISO 46 (280 LTR)**

## DIAGNOSIS

### ▲ Recommendation

We recommend you service the filters on this component. Cleanliness target codes are in part dependent on the system filter micron ratings. Please provide the micron rating of the filters in this system for future samples.

### Wear

All component wear rates are normal.

### ▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

### Fluid Condition

The condition of oil is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC730756</b>	---	---
Sample Date	Client Info	<b>28 May 2008</b>	---	---
Machine Age	cyc Client Info	<b>0</b>	---	---
Oil Age	cyc Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185(m)		<b>3</b>	---	---
Chromium ppm ASTM D5185(m)		<b>0</b>	---	---
Nickel ppm ASTM D5185(m)		<b>0</b>	---	---
Titanium ppm ASTM D5185(m)		<b>0</b>	---	---
Silver ppm ASTM D5185(m)		<b>0</b>	---	---
Aluminum ppm ASTM D5185(m)		<b>0</b>	---	---
Lead ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Copper ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Tin ppm ASTM D5185(m)		<b>0</b>	---	---
Vanadium ppm ASTM D5185(m)		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185(m)		<b>0</b>	---	---
Barium ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Molybdenum ppm ASTM D5185(m)		<b>0</b>	---	---
Manganese ppm ASTM D5185(m)		<b>0</b>	---	---
Magnesium ppm ASTM D5185(m)		<b>0</b>	---	---
Calcium ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Phosphorus ppm ASTM D5185(m)		<b>4</b>	---	---
Zinc ppm ASTM D5185(m)		<b>1</b>	---	---
Sulfur ppm ASTM D5185(m)		<b>1138</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185(m)		<b>9</b>	---	---
Sodium ppm ASTM D5185(m)		<b>0</b>	---	---
Potassium ppm ASTM D5185(m)		<b>0</b>	---	---
Water % ASTM D6304*		<b>0.001</b>	---	---

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647		<b>36134</b>	---	---
Particles >6µm ASTM D7647		▲ <b>4057</b>	---	---
Particles >14µm ASTM D7647		<b>49</b>	---	---
Particles >21µm ASTM D7647		<b>14</b>	---	---
Particles >38µm ASTM D7647		<b>2</b>	---	---
Particles >71µm ASTM D7647		<b>0</b>	---	---
Oil Cleanliness ISO 4406 (c)		▲ <b>22/19/13</b>	---	---

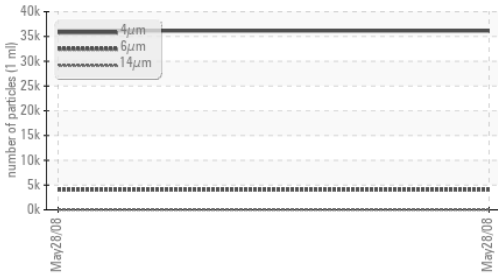
## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D974*		<b>0.02</b>	---	---

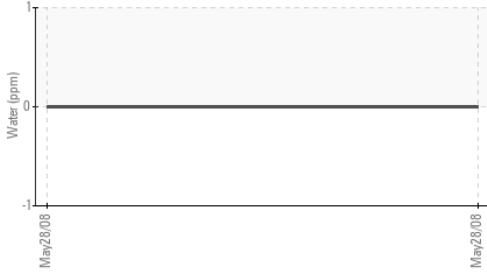


# OIL ANALYSIS REPORT

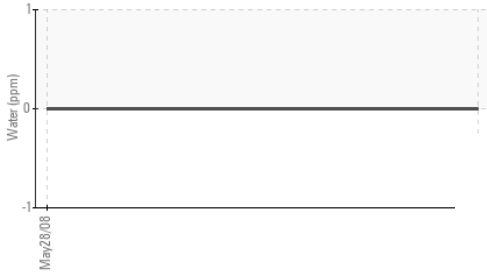
### ▲ Particle Trend



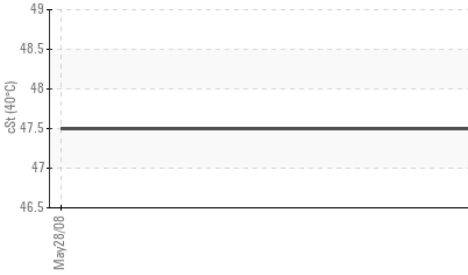
### Water (KF)



### Water (KF)





### Viscosity @ 40°C



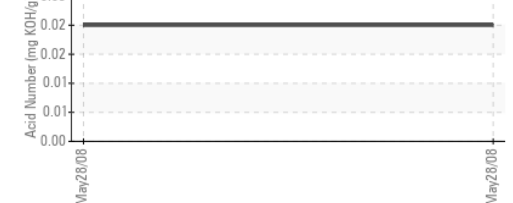
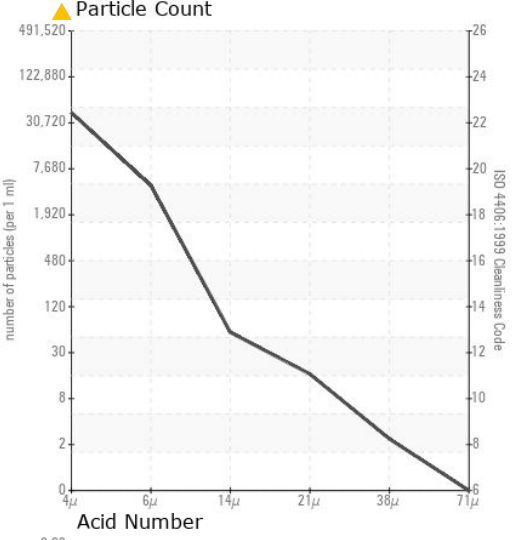
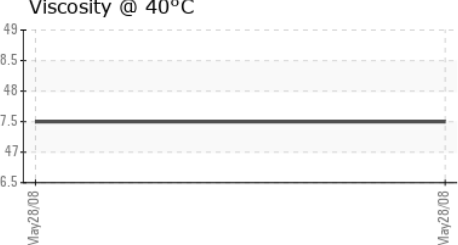
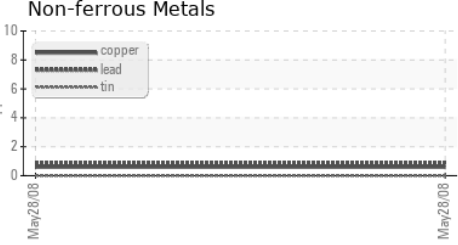
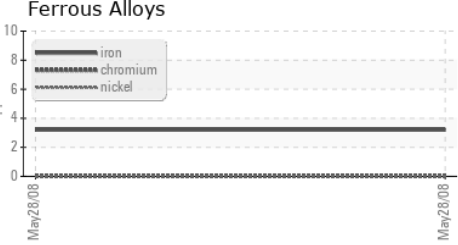
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	47.5	---	---

### SAMPLE IMAGES

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

### GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC730756 **Received** : 30 May 2008  
**Lab Number** : 01466418 **Diagnosed** : 03 Jun 2008  
**Unique Number** : 2669667 **Diagnostician** :  
**Test Package** : IND 2 ( Additional Tests: TAN Auto )

**Ontario Power Generation**  
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 T: (905)357-0322  
 F: (905)374-5466

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.