

## INSPECTION REPORT

<b>Discipline or report series#10</b> Inspection PLANTAS DE COGENERACION	<b>Document number#12</b> DNS13007	<b>Report number#52</b>	<b>Issue#13</b> 1
<b>Title#15</b>  4 – COGENERATION PLANTS - MOTOR MWM TCG 2032V16			
<b>Authors#20</b>		<b>Telephone:</b>	<b>Date#40</b> MARCH 2015

**Summary#60**

Tag	M° motor	M° alternador	n° serie	Año fab.	Año PES	Horas	% promedio 2013	Arranques	Último Mantenimiento Preventivo	Horas de servicio en último MP
Motor_A	TCG 2032 V16	DIG150L/6	2203088	2001	2003	85.525	41,7%	2.374	E40	84.810
Motor_B	TCG 2032 V16	DIG150L/6	2203039	2001	2003	86.995		3.237	E30	86.680
Motor_A	TBG 632 V16F	DIG150L/6	2203913	2003	2005	71.904	41,8%	1.882	E40	71899
Motor_B	TBG 632 V16F	DIG150L/6	2203888	2003	2005	74.142		1.759	E30	74137
Motor_A	TCG 2032 V16		2206877	2007	2008	42.983	41,7%	948	E30	42.791
Motor_B	TCG 2032 V16		2206937	2007	2008	43.068		1.583	E40	42.739
Motor_A	TCG 2032 V16	DIG150m/6	2206478	2006	2009	41.052	41,7%	609	E40	39.814
Motor_B	TCG 2032 V16	DIG150m/6	2206378	2006	2009	39.883		620	E30	37.149
Motor_C	TCG 2032 V16	DIG150m/6	2206182	2006	2009	41.220		620	E40	39.934
Motor_D	TCG 2032 V16	DIG150m/6	2206189	2006	2009	41.099		729	E40	39.857

**ESPECIFICACIONES COMUNES****Motores**

Combustible

Gas natural

**Alternadores**

Pot\_aparente

4950 kVA

Rev.

1000 rpm

Pot\_mec.

4000 kW

Pot\_e (SCN)

3788 kW

Emisiones

500 mgNOx/l 30°C

tx

Tensión

6600 VY

Intensidad

433 A

cos φ

0,8

Giro

dcha.

Frec.

50 Hz

**Observaciones**

E30/E40

Gammas de mantenimiento sistemático según manual.

Alfonso Alvaro  
Business Development Director

M: +57 310 627 9422  
E: alfonso.alvaro@repoweringsolutions.com  
Skype: Alfonso-alvaro repowering  
W: www.repoweringsolutions.com

**LATAM**

Carrera 3 6A100 – Edif. Torre Empresarial Protección, Oficina 807,  
Cartagena de Indias, COLOMBIA

**ENGLAND**

77 VICKERY'S WHARF, 87 STAINSBY ROAD, E14 6JS LONDON SW11 3BY. ENGLAND

**SPAIN**

RONDA DE ATOCHA 37, 28012 MADRID, SPAIN

Document number DNS14009	Issue 1	Security classification	Page 2 of 7
-----------------------------	------------	-------------------------	-------------

©2020 Repowering Solutions LTD

The information in this document is the property of Repowering Solutions LTD and may not be copied, or communicated to a third party, or used, for any purpose other than that for which it is supplied without the express written consent of Repowering Solutions LTD

# Performance Data - TCG 2032

Natural gas applications,  $\text{NO}_x \leq 500 \text{ mg/Nm}^3$ \*

Engine type		TCG 2032 V16	
		50 Hz	60 Hz**
Electrical output	kW	4300	4000
Thermal output $\pm 8\%$	kW	4164	3884
Electrical efficiency	%	44.1	43.7
Thermal efficiency	%	42.7	42.4

\* 5%  $\text{O}_2$  and dry exhaust gases

\*\* On request

Document number DNS14009	Issue 1	Security classification	Page 3 of 7
-----------------------------	------------	-------------------------	-------------

©2020 Repowering Solutions LTD

The information in this document is the property of Repowering Solutions LTD and may not be copied, or communicated to a third party, or used, for any purpose other than that for which it is supplied without the express written consent of Repowering Solutions LTD

Biogas, landfill gas, and sewage gas applications,  $\text{NO}_x \leq 500 \text{ mg/Nm}^3$ \*

Engine type		TCG 2032 V16	
		50 Hz	60 Hz**
Electrical output	kW	3770	3370
Thermal output $\pm 8\%$	kW	3460	3018
Electrical efficiency	%	42.9	43.1
Thermal efficiency	%	39.4	38.6

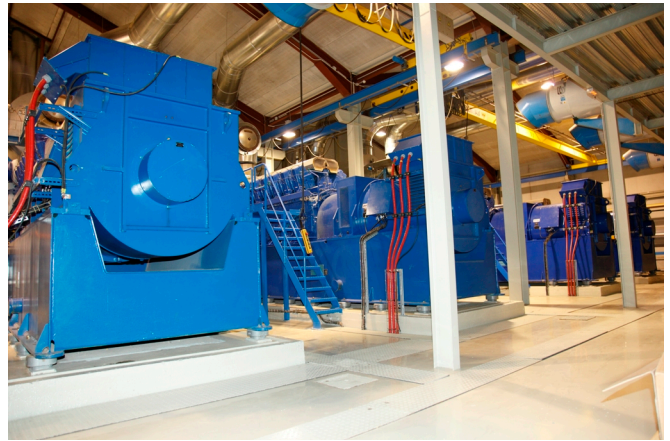
\* 5%  $\text{O}_2$  and dry exhaust gases

Document number DNS14009	Issue 1	Security classification	Page 4 of 7
-----------------------------	------------	-------------------------	-------------

©2020 Repowering Solutions LTD

The information in this document is the property of Repowering Solutions LTD and may not be copied, or communicated to a third party, or used, for any purpose other than that for which it is supplied without the express written consent of Repowering Solutions LTD

## INSPECTION REPORT







Document number DNS14009	Issue 1	Security classification	Page 6 of 7
-----------------------------	------------	-------------------------	-------------

©2020 Repowering Solutions LTD

The information in this document is the property of Repowering Solutions LTD and may not be copied, or communicated to a third party, or used, for any purpose other than that for which it is supplied without the express written consent of Repowering Solutions LTD



## Security classification



Document number DNS14009	Issue 1	Security classification	Page 7 of 7
-----------------------------	------------	-------------------------	-------------

©2020 Repowering Solutions LTD

The information in this document is the property of Repowering Solutions LTD and may not be copied, or communicated to a third party, or used, for any purpose other than that for which it is supplied without the express written consent of Repowering Solutions LTD