




ECO Fuel Systems, LLC

(866) 374-0002



ECO Systems International: Direct Testing Report

Diesel Generator test - on behalf of Kildare Hotel Spa & Country Club

Test ID	Gen 101	
Test Equipment Used	Brain Bee - AGS-688 (151029000092) Infra Red Thermometer	

Testing & Equipment Details

Location of test:	GH Hire Premises, Bishopswood, The Ward, Co Dublin
Purpose of the test:	To determine the effectiveness of the ECO Unit in reducing diesel fuel consumption and emissions when used in a diesel generator
Description of test:	Test #1 runs a fixed fuel amount of 15 ltrs (runs until tank is dry), powering a 40kVA blow heater (50% load on generator). The run time will be the determining variable. Test #2 - same parameters and include the installation of the ECO Unit in the fuel line. Heat output from the blower are also read.(15ltrs = 3.963 gals)

Equipment being tested			
Equipment Make	Iveco	Capacity	80 kVA
Model		Age	
Fuel Type	Diesel	Maintenance completed	
Function	Generator	Equipment ID / Registration	

Test Results

Test # 1				Test # 2			
Test Date	28/01/2016	Start Time	11:35:00	Test Date	28/01/2016	Start Time	13:25:00
		End Time	13:15:00			End Time	15:30:00
		Run Time	01:40:00			Run Time	02:05:00
Equipment warm up & Time allowed	Prior to test beginning 15 mins			Equipment warm up & Time allowed	In service In service		
Emissions Reading	Smoke	0.19		Emissions Reading	Smoke	0.01	
	N/a				N/a		
	N/a				N/a		
	N/a				N/a		
Temperature Reading Degrees C	Exhaust	85		Temperature Reading Degrees C	Exhaust	79.3	
	Heater	34.6			Heater	46.7	

Test Analysis

Fuel Consumed	-25.0%	Reduction	
Emissions Analysis	-94.74%	Reduction	
Carbon Consumption tons / pa (24hr/365)	53.01	Reduction	(Per EPA-420-F-14-040a May 2014)
Heat Output from Blower	12.1%	Increased	
Exhaust Temperature	6.7%	Reduction	