Emissions Report for Heavy Duty Engine Test

SW Version: Horiba v1.0
Test Run No: 290
Test Type: SET2010
CFR: 1065

General Data

TestCell :	HD05	**Operator :**	Dale
Test ID :	HD\Ramped Test 8/16/2016 10:21:55 AM	**Test Date :**	8/16/2016
Cycle :	SET2010	**Start Time :**	11:07:39 AM
Power Map :	HD\Power Map 8/11/2016 3:40:04 PM	**End Time :**	11:47:45 AM
		Engine Hours Start :	5257.33
		Engine Hours End :	5258.00

Engine Data

EngManufacturer:	Cummins Inc.	**Intake Restrictive Set Point (kPa):**	-10
Engine Model :	Cummins ISB260	**Exhaust Restrictive Set Point (kPa):**	5
Engine Number:	58246060	**Low Idle Speed (rpm):**	700
Engine Family:	GCEXH0408BAP	**Eng Displacement (liter) :**	6.7
Fuel Type :	Diesel		
Fuel HC Ratio:	1.8		
Governor :	Automotive		
Engine Aspiration Type :	Turbocharged		
Num of Cylinder:	6		

	Specified	Observed
Idle Torque CITT (Nm) :	0	
Max Test Speed (rpm) :	2596	2599
Max Test Power@Speed (rpm) :	0	203.6@2349
Max Test Torque@Speed (rpm) :	0	917.3@1670

Other Engine Inputs:

Test Conditions

			Average	Min	Max
Barometric Pressure (kPa) :	98.16	**Oil Temperature (°C) :**	108.89	97.79	115.86
Intake Air Temperature (°C) :	26.12	**Coolant Temperature (°C) :**	92.55	89.75	96.62
Average Fuel Flow Rate (kg/hr) :	21.82	**PM Trap Face Temperature (°C) :**	385.52	191.45	485.73
Absolute Humidity (g/Kg) :	10.39				
Dewpoint (°C) :	13.54				
Average Fuel Pump Inlet Temp (°C) :	25.46				

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Test Results

Cycle Work (kWhr) :	64.73
Cycle Work (HPhr) :	86.81
BSFC Fuel Measurement (g/kWhr) :	225.23
BSFC Fuel Measurement (g/hphr) :	167.95
BSFC CB (g/kWhr) :	224.01
BSFC CB (g/hphr) :	167.04

	CO	THC	NOx	CO2	CH4	NMHC	NMHC+NOX	N2O	PM
	µmol/mol	µmol/mol	µmol/mol	%mol	µmol/mol	µmol/mol		µmol/mol	
Ambient Bag Concentration :	0.6328	2.3028	0.0017	0.046	1.8708	0.2879		0.2868	
Sample Bag Concentration :	1.6769	2.1102	6.7220	1.410	1.5313	0.4610		1.7964	
Dilute Exhaust Concentration :	1.2657	2.4723	6.8435	1.426	0.1308	2.3315		1.6362	
Emission/Test (g) :	2.3756	0.4331	23.6787	46157.2	0.0000	0.0395	23.7182	5.1852	0.0905
Brake Specific Emission (g/kWhr):	0.0370	0.0070	0.3660	714.3	0.0020	0.0070	0.3720	0.0800	0.0014
Brake Specific Emission (g/hphr):	0.0270	0.0050	0.2730	532.7	0.0020	0.0050	0.2780	0.0600	0.0010