Emissions Report for Heavy Duty Engine Test

SW Version: Horiba v1.0
Test Run No: 262
Test Type: CFRN
CFR: 1065

General Data

TestCell :	HD05	**Operator :**	Dale
Test ID :	HD\Hot Start Transient 7/21/2016 9:20:18 AM	**Test Date :**	7/21/2016
Cycle :	CFRN	**Start Time :**	10:14:00 AM
Power Map :	HD\Power Map 7/13/2016 3:49:32 PM	**End Time :**	10:34:36 AM
		Engine Hours Start :	5143.47
		Engine Hours End :	5143.81

Engine Data

EngManufacturer:	Cummins Inc.	**Intake Restrictive Set Point (kPa):**	-10
Engine Model :	Cummins ISB260	**Exhaust Restrictive Set Point (kPa):**	5
Engine Number:	58246264	**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	2605
Max Test Power@Speed (rpm) :	0	200.7@2428
Max Test Torque@Speed (rpm) :	0	934.2@1558

Other Engine Inputs:

Test Conditions

			Average	Min	Max
Barometric Pressure (kPa) :	98.69	**Oil Temperature (°C) :**	99.38	84.06	108.58
Intake Air Temperature (°C) :	25.24	**Coolant Temperature (°C) :**	90.69	76.40	97.84
Average Fuel Flow Rate (kg/hr) :	10.54	**PM Trap Face Temperature (°C) :**	274.83	108.53	414.87
Absolute Humidity (g/Kg) :	10.11				
Dewpoint (°C) :	13.22				
Average Fuel Pump Inlet Temp (°C) :	38.64				

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Test Results

Cycle Work (kWhr) :	13.93
Cycle Work (HPhr) :	18.68
BSFC Fuel Measurement (g/kWhr) :	262.72
BSFC Fuel Measurement (g/hphr) :	195.91
BSFC CB (g/kWhr) :	254.24
BSFC CB (g/hphr) :	189.58

	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 :	0.6334	2.1314	-0.0207	0.042	1.9800	-0.0011		0.2971	
Sample Bag Concentration :	1.7204	2.0664	1.8435	0.660	1.9551	-0.0393		0.6638	
Dilute Exhaust Concentration :	1.1860	2.3331	1.9165	0.683	0.0311	2.2995		1.9347	
Emission/Test (g) :	1.2589	0.1701	3.4158	11270.4	0.0425	0.0000	3.4158	0.6742	0.0170
Brake Specific Emission (g/kWhr):	0.0900	0.0120	0.2450	792.3	0.0010	0.0120	0.2570	0.0480	0.0012
Brake Specific Emission (g/hphr):	0.0670	0.0090	0.1830	590.8	0.0010	0.0090	0.1920	0.0360	0.0009