Emissions Report for Heavy Duty Engine Test

SW Version: Horiba v1.0
Test Run No: 288
Test Type: CFRN
CFR: 1065

General Data

TestCell :	HD05	**Operator :**	Dale
Test ID :	HD\Cold Start Transient 8/16/2016 8:47:08 AM	**Test Date :**	8/16/2016
Cycle :	CFRN	**Start Time :**	9:01:05 AM
Power Map :	HD\Power Map 8/11/2016 3:40:04 PM	**End Time :**	9:21:35 AM
		Engine Hours Start :	5255.97
		Engine Hours End :	5256.31

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) :	98.03	**Oil Temperature (°C) :**	75.18	26.51	105.67
Intake Air Temperature (°C) :	24.87	**Coolant Temperature (°C) :**	69.51	24.89	105.97
Average Fuel Flow Rate (kg/hr) :	10.60	**PM Trap Face Temperature (°C) :**	255.41	24.30	421.45
Absolute Humidity (g/Kg) :	10.59				
Dewpoint (°C) :	13.80				
Average Fuel Pump Inlet Temp (°C) :	16.48				

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Test Results

Cycle Work (kWhr) :	13.77
Cycle Work (HPhr) :	18.46
BSFC Fuel Measurement (g/kWhr) :	265.52
BSFC Fuel Measurement (g/hphr) :	198.00
BSFC CB (g/kWhr) :	264.35
BSFC CB (g/hphr) :	197.13

	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 :	0.6818	2.0811	-0.0139	0.044	1.8672	0.0701		0.2856	
Sample Bag Concentration :	3.6157	2.8753	5.6605	0.680	1.9248	0.8023		0.5561	
Dilute Exhaust Concentration :	3.2698	3.2594	5.7754	0.704	0.1276	3.1220		1.5308	
Emission/Test (g) :	3.3566	0.7191	10.5217	11577.1	0.0941	0.4123	10.9341	0.5048	0.0065
Brake Specific Emission (g/kWhr):	0.2440	0.0520	0.7640	820.8	0.0060	0.0510	0.8160	0.0370	0.0005
Brake Specific Emission (g/hphr):	0.1820	0.0390	0.5700	612.0	0.0040	0.0380	0.6080	0.0270	0.0004