

Experiment	Experiment date	Experiment description	Engine conditions									Exhaust emission*			
			rpm	Throttle (%)	Load (%)	Torque (Nm)	DOC	Engine temp. (°C)	Fuel burnt (g)	Exhaust dilution ratio	Chamber temp. (°C)	Chamber RH (%)	NO (g kg <sup>-1</sup> )	NO <sub>2</sub> (g kg <sup>-1</sup> )	Particle mass (mg kg <sup>-1</sup> )**
1	30 Jul 2014	Warm high load <sup>a</sup>	2500	57	40	75	Yes	460	6.13	166	21.0	54.8	27.6	3.2	302
2	31 Jul 2014	Warm high load <sup>a</sup>	2500	57	40	75	Yes	450	2.45	313	21.8	52.8	23.4	1.9	235
3	1 Aug 2014	Warm high load	2500	57	40	75	No	450	2.45	325	31.6	61.6	21.7	2.5	198
4	5 Aug 2014	Warm with load <sup>b</sup>	2000	40	30	50	Yes	**	0.41	1158	32.9	52.0	26.1	0.5	220
5	8 Aug 2014	Warm with load <sup>b</sup>	2000	40	30	50	Yes	300	8.27	60	32.6	58.7	20.7	3.1	268
6	6 Aug 2014	Cold Start <sup>c</sup>	1150	0	0	1.5	Yes	85	0.59	389	32.7	58.8	7.2	15.0	1159
7	7 Aug 2014	Cold Start <sup>c</sup>	1150	0	0	2	Yes	83	0.59	564***	27.4	52.8	7.9	14.6	915
8	6 Aug 2014 (2)	Cold loaded*	1500	30	20	32	Yes	169	1.19	312	27.5	51.8	17.3	9.8	121
9	6 Aug 2014 (3)	Warm idle following load*	1180	0	0	0.3	Yes	150	1.18	775	25.9	45.7	13.1	0.9	168
10	13 Nov 2014 (1)	Warm with load <sup>b</sup>	2000	40	30	50	Yes	300	0.41	840	22.4	53.2	31.5	2.0	351
11	13 Nov 2014 (2)	High rpm, 53 % load	3000	75	53	112	Yes	700	3.28	353	23.3	53.4	21.7	1.9	2146
12	14 Nov 2014 (1)	High rpm, 30 % load	3000	48	30	50	Yes	345	1.74	198	22.8	53.0	39.2	5.3	600
13	14 Nov 2014 (2)	High rpm, 40 % load	3000	57	40	70	Yes	445	2.39	191	23.6	48.2	44.6	8.6	655
14	25 Nov 2014	Cold Start <sup>c</sup>	1150	0	0	2	Yes	**	0.59	564***	22.2	39.7	6.3	10.6	1159
15	1 Oct 2015	Warm with load <sup>b</sup>	2000	40	28	50	Yes	292	1.57	331	31.5	56.4	12.8	0.5	298
16	29 Sep 2015	Warm with load <sup>b</sup>	2000	40	28	50	Yes	293	1.57	337	28.0	67.1	12.2	0.5	241