



CONTROL SISTEM S.r.l.

via Cuneo n.7, 10044 Pianezza (TO) Italy

CYCLE DATA

Cycle number:	4401	Date:	15.03.2014
Performed cycle:	POWER CURVE	6	CS 037/14
Operator:	Pellegrino	Customer:	I/O ENERGIES
Driver:	Vendemiati		

INSTRUMENTATION

Chassis-dyno:	Dynosaur 2WD compact 002 year 2012		
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VEHICLE

Manufacturer:	Audi	Inertia [Kg]:	1260
Model:	A3	Roll/wheel resistance at 20km/h [N]:	105
Code:	EV214FJ	Roll/wheel resistance at 40km/h [N]:	114
Chassis number:		Roll/wheel resistance at 60km/h [N]:	120
Engine:	1,6	Roll/wheel resistance at 80km/h [N]:	120
Transmission:	Manuale	Roll/wheel resistance at 100km/h [N]:	127
Traction:	Anteriore	Roll/wheel resistance at 120km/h [N]:	132
Fuel:	Diesel	Wheel diameter [mm]:	600
Tyres pressure [bar]:	3	Total transmission ratio:	4,524
Kilometers [km]:	3658	Total transmission efficiency [%]:	90,0

AMBIENT DATA

Ambient temperature [°C]:	24,5		
Barometric pressure [mbar]:	983		
Relative humidity [%]:	42,0		
Absolute humidity [g/kg]:	8,27		
Pd dry [kPa]:	3,074		

RESULTS

Step	Wheel speed [km/h]	Engine speed [rpm]	Roll/wheel F [N]	Force at roll [N]	Torque [Nm]	Power [kW]
1	27,25	1090,0	108,6	-271,52	-12,0	-1,4
2	30,34	1213,6	109,5	2000,71	155,5	19,8
3	35,25	1410,0	111,0	3113,76	237,6	35,1
4	40,23	1609,2	112,5	3360,95	255,9	43,1
5	45,38	1815,2	114,0	3337,71	254,3	48,3
6	50,34	2013,6	115,4	3337,76	254,4	53,7
7	55,27	2210,9	116,7	3336,80	254,5	58,9
8	60,37	2414,9	118,1	3329,66	254,0	64,2
9	65,33	2613,3	119,4	3308,90	252,6	69,1
10	70,22	2808,9	120,6	3266,38	249,6	73,4
11	75,41	3016,5	121,9	3152,61	241,3	76,2
12	80,40	3216,1	123,1	2989,47	229,3	77,2
13	85,40	3416,1	124,3	2803,00	215,7	77,2
14	90,44	3617,7	125,4	2627,09	202,8	76,8
15	95,46	3818,5	126,5	2491,93	192,9	77,1
16	100,44	4017,7	127,6	2376,23	184,5	77,6
17	105,40	4216,1	128,6	2223,33	173,3	76,5
18	110,45	4418,1	129,6	2060,47	161,4	74,7
19	115,45	4618,1	130,5	1923,95	151,4	73,2
20	120,39	4815,7	131,4	1660,47	132,0	66,6
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NOTES: Gear used during test: 3rd

TESTING RESPONSIBLE:	CUSTOMER:
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