#### STATUTORY INSTRUMENTS

# 1998 No. 3093

# **ROAD TRAFFIC**

# The Motor Vehicles (Type Approval of Reduced Pollution Adaptations) Regulations 1998

Made - - - - 9th December 1998
Laid before Parliament 10th December 1998
Coming into force - - 1st January 1999

The Secretary of State for the Environment, Transport and the Regions, in exercise of the powers conferred by sections 54(1) and 61 of the Road Traffic Act 1988(1) and of all other powers enabling him in that behalf, and after consultation with representative organisations in accordance with section 195(2) of that Act, hereby makes the following Regulations:—

### Citation and commencement

1. These Regulations may be cited as the Motor Vehicles (Type Approval of Reduced Pollution Adaptations) Regulations 1998 and shall come into force on 1st January 1999.

# Interpretation

2. In these Regulations-

"reduced pollution device" means a device fitted to the engine of a motor vehicle for the purpose of adapting it so that it meets the reduced pollution requirements;

"the reduced pollution requirements" means the requirements prescribed by regulation 5 of the Vehicle Excise Duty (Reduced Pollution) Regulations 1998(2).

# **Prescribed requirements**

- **3.**—(1) The requirements specified in paragraphs (2) and (3) below are hereby prescribed as type approval requirements for reduced pollution devices.
- (2) In relation to a vehicle which at the time it was first used was required to meet, or did meet, the requirements as to the rate and content of its particulate emissions specified in an instrument referred to in column (2) of an item in the table below, the prescribed requirements are that the vehicle is so adapted that, when it is tested in accordance with the requirements specified by paragraph (4), the

<sup>(1) 1988</sup> c. 52; section 61 was amended by the Road Traffic Act 1991 (c. 40), Schedule 8.

<sup>(2)</sup> S.I. 1998/3094

rate and content of its particulate emissions do not exceed the number of grams per kilowatt-hour specified in column (3) of the item.

**TABLE** 

(1) Item	(2) Instrument setting standard to which vehicle was first used	(3) Rate and content of particulate emissions after adaptation (grams per kilowatt-hour)
1	Directive 88/77/EEC(3)	0.16
2	Directive 91/542/EEC(4) (limits A)	0.16
3	Directive 91/542 (limits B)	0.08
4	European Commission Proposal (COM (97) 627) for a European and Council Directive amending Council Directive 88/77( <b>5</b> )	0.04

- (3) A reduced pollution device must be legibly and indelibly marked with a unique marking in such a way as to identify its type.
- (4) The requirements in accordance with which a vehicle is to be tested for the purposes of paragraph (2) are the requirements of the Schedule to these Regulations.

### Application of the Motor Vehicles (Type Approval for Goods Vehicles) Regulations 1982

- **4.**—(1) Regulations 7, 13, 14(1) and (3) and 15 to 18 of the Motor Vehicles (Type Approval for Goods Vehicles) Regulations 1982(**6**) ("the 1982 Regulations") apply in relation to the type approval of reduced pollution devices as they apply in relation to the type approval of vehicle parts under those Regulations, but subject to the modifications specified in paragraphs (2) to (4) of this regulation.
- (2) In regulation 15 of the 1982 Regulations, paragraph (1) shall have effect as if there were omitted-
  - (a) the words "or Minister's Approval Certificate"; and
  - (b) sub-paragraph (b).
- (3) The form of information document for a vehicle part in Part II of Schedule 2 to the 1982 Regulations shall have effect as if, for the paragraph headed "Detailed specification" there were substituted—

# "Detailed specification

The above information should be supplemented by—

(i) the data relevant to the vehicle part or characteristic as listed in the information document specified in the Appendix to Council Directive 88/77/EEC on the approximation of the laws of the Member States relating to the measures to be taken against the emission of gaseous and

<sup>(3)</sup> OJNo. L36, 9.2.88, page 3.

<sup>(4)</sup> OJ No. L295, 25.10.91, page 1.

<sup>(5)</sup> OJ No. 98/C 173/1, 8.6.98, page 18.

<sup>(6)</sup> S.I. 1982/1271; relevant amending instruments are S.I. 1992/3084, 1995/1323.

particulate pollutants from diesel engines for use in vehicles as amended by Council Directive 91/542/EEC;

- (ii) any additional technical data reasonably required to enable the Secretary of State to assess the performance of the vehicle part or characteristic in question."
- (4) Part II of Schedule 3 to the 1982 Regulations (form of type approval certificate for a vehicle part) shall have effect as if for the words "the Motor Vehicles (Type Approval for Goods Vehicles) (Great Britain) Regulations 1982" there were substituted "the Motor Vehicles (Type Approval of Reduced Pollution Adaptations) Regulations 1998".

Signed by authority of the Secretary of State

Parliamentary Under Secretary of State,
Department of the Environment, Transport and
the Regions

9th December 1998

#### THE SCHEDULE

Regulation 3(4)

## TEST REQUIREMENTS FOR THE PURPOSES OF REGULATION 3(2)

- 1. The components of the device liable to affect the emission of pollutants shall be designed, constructed and assembled so as to enable the vehicle, when in use and despite any vibration to which it may be subject, to comply with the provisions of this Schedule.
- **2.** The fitting of the device shall not produce an increase in the level of carbon monoxide, hydrocarbons or oxides of nitrogen emitted by the engine of the vehicle.

#### **3.** EITHER

The design, construction and equipment requirements in paragraphs 6, 6.1 and 6.2, as related to ETC particulates, of proposed Council Directive COM(97)627 shall be complied with.

OR

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Paragraph number of Annex III

The design, construction and equipment requirements in paragraphs 6, 6.1 and 6.2, as related to ETC particulates, of proposed Council Directive COM(97)627 shall, subject to the modifications of Annex III shown in the Table below, be complied with.

Modification

**TABLE** 

1.2		The test shall be carried out with the engine installed in a vehicle connected to a chassis dynamometer		
1.3.3		For references to "engine dynamometer" there shall be substituted "chassis dynamometer"		
2.4		The exhaust system sha fitted to the vehicle wit		
2.7		In addition, the fuel may be one widely available on the UK market and acceptable to the Secretary of State		
Appendix 3		For the Dynamometer Schedule there shall be substituted the Dynamometer Schedule and graphical display shown in the Appendix to t Schedule		
Time	Vehicle speed	Related engine speed	Related engine torque	
S	km/h	%	%	
1	0.4	28.2	2.1	
2	0.4	27.8	0.9	
3	0.4	28.4	1.3	
4	0.4	28.3	1.2	
5	0.4	28.4	1.3	
			· -	

28.8

1.7

0.4

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
8	0.4	27.8	0.8
9	0.4	28.3	0.3
10	0.3	28.3	2.2
11	0.4	28.3	0.3
12	0.4	28.8	2.6
13	0.4	27.9	0.9
14	0.4	27.8	0.8
15	0.4	28.3	0.3
16	0.5	28.6	1.5
17	1.0	45.0	21.5
18	2.0	37.5	28.5
19	3.9	44.1	71.0
20	6.5	42.6	76.8
21	9.2	67.6	80.9
22	11.6	79.5	4.9
23	13.6	68.5	18.1
24	15.2	80.0	85.4
25	16.6	90.5	61.8
26	17.6	65.5	-10.9
27	18.5	66.7	48.9
28	19.6	53.0	87.6
29	21.3	61.0	92.7
30	23.4	67.6	99.5
31	25.6	74.7	96.8
32	27.8	79.8	85.4
33	29.7	85.3	54.8
34	31.2	92.7	99.4
35	32.3	69.6	-11.5
36	32.7	71.2	30.6
37	32.8	92.9	-10.3
38	32.6	87.8	-15.1
39	32.3	65.2	-10.9
40	31.9	48.9	-1.3

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
41	31.1	49.4	-2.1
42	29.8	47.6	-1.8
43	27.6	43.1	-0.4
44	24.6	38.6	0.6
45	20.7	33.1	0.4
46	16.2	30.2	1.0
47	11.3	30.1	0.9
48	6.9	30.2	0.1
49	3.5	29.8	-0.2
50	1.5	29.3	0.3
51	0.7	29.8	0.7
52	0.5	29.3	1.2
53	0.4	28.8	0.8
54	0.4	29.8	-0.2
55	0.4	29.3	0.2
56	0.4	28.8	-1.1
57	0.3	29.3	0.2
58	0.3	29.3	0.2
59	0.3	29.2	0.2
60	0.3	28.9	0.8
61	0.5	29.3	-0.7
62	1.0	46.8	11.1
63	2.0	48.9	20.9
64	4.0	51.4	73.9
65	6.8	31.4	82.3
66	9.9	53.2	80.4
67	13.0	74.3	86.0
68	15.6	70.0	-11.6
69	17.6	64.5	83.4
70	19.5	76.0	99.1
71	21.2	86.7	99.6
72	22.3	91.9	73.4
73	22.6	66.1	-11.0

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
74	22.6	61.7	58.5
75	22.8	63.3	90.9
76	23.6	68.0	99.4
77	24.9	73.1	99.0
78	26.2	77.4	91.5
79	27.3	81.8	73.7
30	28.1	55.7	-6.9
31	28.7	58.4	89.6
32	29.5	62.2	99.2
33	30.6	66.1	99.8
84	31.7	69.2	80.8
35	32.3	70.2	11.8
36	32.1	68.7	-11.4
37	31.0	65.7	-10.9
38	29.0	59.5	-9.4
39	26.6	54.3	-5.6
90	23.9	48.3	-2.5
91	20.7	43.6	-0.6
92	17.1	34.3	0.9
93	13.4	29.8	0.6
94	9.7	27.8	-0.1
95	6.5	28.3	1.3
96	3.9	28.8	1.6
97	2.1	28.8	0.7
98	1.1	28.8	1.7
99	0.8	27.8	0.9
100	0.9	28.4	1.3
101	1.0	28.8	2.6
102	1.0	28.8	1.6
103	0.8	27.9	1.0
104	0.7	28.3	0.3
105	0.6	28.9	1.7
106	0.8	28.7	1.6

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
107	1.1	28.8	0.7
108	1.7	36.8	14.8
109	2.7	27.8	0.8
110	4.4	47.9	74.8
111	7.0	40.7	76.9
112	10.1	54.3	78.0
113	13.2	71.2	86.0
114	15.8	86.3	17.9
115	17.9	64.1	-5.9
116	19.5	75.4	86.0
117	20.8	84.7	72.2
118	21.7	74.9	-12.4
119	22.5	60.2	-6.2
120	23.4	65.3	83.4
121	24.7	70.1	97.0
122	26.2	78.1	99.3
123	27.4	80.0	20.8
124	27.8	80.1	-10.5
125	27.4	75.2	-12.4
126	26.6	74.3	-12.2
127	25.5	71.2	-11.7
128	24.1	66.3	-11.0
129	22.6	61.3	-9.9
130	21.0	56.2	-7.4
131	19.3	51.7	-3.3
132	17.8	47.8	-1.7
133	16.5	44.0	-0.9
134	15.5	42.1	0.4
135	14.5	53.3	14.0
136	13.3	40.3	48.6
137	11.6	24.9	11.2
138	9.7	29.4	2.1
139	8.4	50.0	19.3

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
140	8.4	49.9	73.9
141	9.5	67.4	74.4
142	10.9	83.7	55.6
143	12.3	70.1	-11.6
144	13.5	60.7	82.1
145	15.0	77.7	98.1
146	16.5	89.8	67.2
147	17.9	71.6	-11.8
148	19.2	71.0	98.0
149	20.5	80.5	99.6
150	21.6	85.7	45.0
151	22.4	60.2	-9.5
152	23.1	58.2	84.4
153	24.3	68.7	98.2
154	25.9	75.5	99.1
155	27.6	81.7	84.7
156	29.2	67.4	-5.0
157	30.6	62.8	89.7
158	32.1	67.5	99.5
159	33.8	73.3	96.8
160	35.5	73.1	-2.5
161	36.9	61.5	54.2
162	38.3	60.2	83.2
163	39.4	63.0	13.3
164	40.3	65.0	-8.5
165	40.8	64.3	-10.8
166	41.0	63.7	-10.7
167	41.1	63.8	-10.7
168	41.2	64.2	-10.8
169	41.1	65.4	-10.9
170	41.1	64.1	-10.7
171	41.1	63.2	-10.6
172	41.4	64.5	72.5

	Related engine speed	Related engine torque
km/h	%	%
41.9	65.1	84.5
42.5	67.6	64.8
42.9	69.0	76.5
42.5	70.0	-11.6
41.0	66.8	-11.1
38.4	57.7	-8.1
35.1	52.0	-3.4
31.7	47.3	-2.3
27.9	43.4	-0.7
23.8	35.6	0.7
19.3	30.3	0.2
14.9	28.2	1.2
11.2	28.4	1.4
8.1	27.8	-0.1
5.7	27.9	0.0
3.8	28.3	0.3
2.3	28.9	1.7
1.3	28.8	0.7
0.7	28.8	1.7
0.5	27.8	0.9
0.4	28.3	1.2
0.3	28.8	1.6
0.4	26.8	2.0
0.4	27.9	1.9
0.4	27.9	0.0
0.4	28.8	1.7
0.4	28.4	1.4
0.4	26.4	1.7
0.4	28.8	1.6
0.4	27.9	0.9
		0.4
		1.6
		0.9
	41.9 42.5 42.9 42.5 41.0 38.4 35.1 31.7 27.9 23.8 19.3 14.9 11.2 8.1 5.7 3.8 2.3 1.3 0.7 0.5 0.4 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	41.9       65.1         42.9       69.0         42.5       70.0         41.0       66.8         38.4       57.7         35.1       52.0         31.7       47.3         27.9       43.4         23.8       35.6         19.3       30.3         14.9       28.2         11.2       28.4         8.1       27.8         5.7       27.9         3.8       28.3         2.3       28.9         1.3       28.8         0.7       28.8         0.5       27.8         0.4       28.3         0.3       28.8         0.4       26.8         0.4       27.9         0.4       28.4         0.4       26.4         0.4       28.8         0.4       28.8         0.4       27.9         0.5       28.4         0.4       27.9         0.5       28.4         0.4       27.9         0.5       28.4         0.4       28.8         0.4       28.8

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
206	0.4	28.4	0.4
207	0.4	28.9	0.8
208	0.4	28.8	-0.2
209	0.4	28.9	1.7
210	0.4	28.8	2.6
211	0.4	28.8	0.8
212	0.4	28.3	1.2
213	0.4	28.3	1.2
214	0.4	28.3	1.3
215	0.4	29.3	1.2
216	0.4	29.4	2.1
217	0.4	28.9	-0.1
218	0.4	28.8	0.7
219	0.4	28.7	1.6
220	0.4	28.8	1.6
221	0.4	28.8	1.6
222	0.4	29.2	2.0
223	0.5	29.3	0.3
224	1.0	28.9	0.8
225	2.1	43.6	62.7
226	4.0	50.5	75.1
227	6.8	32.8	82.7
228	9.9	53.3	80.3
229	13.0	71.3	87.0
230	15.7	88.8	86.2
231	17.8	77.7	-12.8
232	19.4	59.7	-5.5
233	20.8	58.2	85.4
234	22.6	64.2	94.3
235	24.8	72.0	99.0
236	26.9	78.7	99.4
237	28.8	86.5	92.4
238	30.2	63.7	-10.7

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
239	31.4	68.6	86.2
240	32.6	68.7	99.3
241	34.1	72.7	99.0
242	35.7	78.0	99.3
243	37.0	81.5	99.8
244	37.8	80.3	8.4
245	38.0	79.5	-6.1
246	37.7	79.4	9.1
247	37.2	76.5	-3.3
248	36.5	75.3	-12.4
249	35.9	74.6	-12.3
250	35.4	73.5	25.6
251	35.1	73.0	35.6
252	34.8	73.5	24.4
253	34.4	70.6	-11.6
254	33.8	69.2	-9.6
255	33.1	67.5	-7.9
256	32.8	65.5	17.0
257	32.9	68.7	78.7
258	33.7	71.1	94.7
259	35.0	75.3	99.1
260	36.7	79.4	99.5
261	38.5	83.3	99.9
262	40.0	85.0	-14.4
263	41.4	66.3	97.5
264	42.7	66.5	99.7
265	44.2	70.7	99.1
266	45.7	73.0	99.0
267	47.1	75.0	99.1
268	48.4	77.8	83.1
269	49.2	78.5	28.4
270	49.7	79.0	12.5
271	49.9	77.8	8.4

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
272	49.8	78.4	9.1
273	49.7	78.3	7.0
274	49.4	75.5	-1.9
275	49.0	76.5	-12.6
276	48.5	76.2	-12.6
277	48.0	75.4	-12.4
278	47.3	74.7	-12.3
279	46.5	73.5	-12.1
280	45.5	70.9	-11.7
281	44.2	67.2	-11.1
282	42.6	65.2	-10.9
283	40.9	62.8	-10.6
284	39.0	59.7	-9.4
285	37.0	56.7	-7.5
286	34.9	53.3	-4.9
287	32.9	49.8	-2.4
288	30.9	43.4	73.4
289	28.9	54.9	-2.6
290	26.9	53.9	-4.7
291	25.0	43.4	-0.7
292	23.1	64.1	11.9
293	21.2	58.9	-8.7
294	19.4	51.4	-2.7
295	17.7	45.4	-1.7
296	16.6	42.2	0.4
297	16.3	39.8	73.5
298	16.9	46.4	76.8
299	18.1	53.2	81.4
300	19.9	60.0	87.4
301	22.1	66.3	98.6
302	24.5	74.0	99.0
303	26.9	81.2	99.7
304	28.6	73.0	-12.0

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
305	29.5	49.4	-3.1
306	29.8	61.7	22.0
307	29.8	62.3	13.8
308	29.7	62.3	12.5
309	29.7	62.8	11.5
310	29.9	62.7	35.5
311	30.5	63.7	83.3
312	31.4	66.2	96.4
313	32.5	69.6	99.2
314	33.6	72.7	99.0
315	34.3	76.0	60.9
316	34.3	75.6	-12.5
317	33.3	70.7	-11.7
318	31.5	64.8	-10.8
319	29.2	58.4	-8.9
320	26.9	53.3	-4.9
321	24.8	49.0	-2.2
322	23.1	46.5	-1.7
323	21.9	59.3	24.8
324	21.0	56.2	-4.8
325	20.6	62.9	31.9
326	20.6	57.3	61.0
327	21.0	58.8	52.1
328	21.5	61.7	47.7
329	21.8	62.0	30.7
330	21.9	61.5	23.1
331	21.9	61.2	23.2
332	22.0	61.1	31.9
333	22.2	61.7	73.6
334	22.6	65.2	60.7
335	23.1	65.2	51.1
336	23.5	66.6	46.8
337	23.8	67.1	50.0

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
338	23.8	66.7	52.1
339	23.6	67.0	45.7
340	23.2	64.7	22.1
341	22.5	62.7	26.0
342	21.5	58.3	17.8
343	20.6	56.2	29.8
344	19.8	54.2	71.6
345	19.3	53.3	47.3
346	19.2	53.4	80.3
347	19.4	54.2	87.2
348	20.0	56.3	90.8
349	20.8	58.2	94.7
350	21.6	62.2	99.2
351	22.2	66.5	99.7
352	22.4	61.7	-0.4
353	22.2	58.9	0.7
354	22.0	59.7	58.6
355	22.5	62.2	87.5
356	23.8	67.2	99.5
357	25.5	73.5	99.0
358	27.5	80.4	99.6
359	29.2	87.4	99.5
360	30.6	91.4	99.4
861	31.3	61.7	-10.2
362	31.9	66.7	95.2
363	32.7	70.3	99.2
364	33.8	72.5	99.0
365	35.0	74.8	99.0
866	36.3	77.2	99.2
367	37.5	81.0	99.7
368	38.4	80.9	29.8
869	38.9	81.1	14.6
370	39.1	77.3	-12.8

s       km/h       %         371       39.2       61.0         372       39.4       62.3         373       39.6       60.3         374       39.7       62.7         375       39.6       62.0         376       39.6       62.0         377       39.6       62.0         378       39.5       61.5         379       39.3       61.5         380       39.0       61.0         381       38.5       60.5         382       37.9       59.8         383       37.2       57.8         384       36.5       57.9         385       35.8       55.7         386       35.1       54.2	75.7 9.0 10.3 15.9 12.7 8.9 6.2
372       39.4       62.3         373       39.6       60.3         374       39.7       62.7         375       39.6       62.0         376       39.6       62.0         377       39.6       62.0         378       39.5       61.5         379       39.3       61.5         380       39.0       61.0         381       38.5       60.5         382       37.9       59.8         383       37.2       57.8         384       36.5       57.9         385       35.8       55.7	75.7 9.0 10.3 15.9 12.7 8.9 6.2
373       39.6       60.3         374       39.7       62.7         375       39.6       62.0         376       39.6       62.0         377       39.6       62.0         378       39.5       61.5         379       39.3       61.5         380       39.0       61.0         381       38.5       60.5         382       37.9       59.8         383       37.2       57.8         384       36.5       57.9         385       35.8       55.7	9.0 10.3 15.9 12.7 8.9 6.2
374       39.7       62.7         375       39.6       62.0         376       39.6       62.0         377       39.6       62.0         378       39.5       61.5         379       39.3       61.5         380       39.0       61.0         381       38.5       60.5         382       37.9       59.8         383       37.2       57.8         384       36.5       57.9         385       35.8       55.7	10.3 15.9 12.7 8.9 6.2
375       39.6       62.0         376       39.6       62.0         377       39.6       62.0         378       39.5       61.5         379       39.3       61.5         380       39.0       61.0         381       38.5       60.5         382       37.9       59.8         383       37.2       57.8         384       36.5       57.9         385       35.8       55.7	15.9 12.7 8.9 6.2
376       39.6       62.0         377       39.6       62.0         378       39.5       61.5         379       39.3       61.5         380       39.0       61.0         381       38.5       60.5         382       37.9       59.8         383       37.2       57.8         384       36.5       57.9         385       35.8       55.7	12.7 8.9 6.2
377       39.6       62.0         378       39.5       61.5         379       39.3       61.5         380       39.0       61.0         381       38.5       60.5         382       37.9       59.8         383       37.2       57.8         384       36.5       57.9         385       35.8       55.7	8.9 6.2
378       39.5       61.5         379       39.3       61.5         380       39.0       61.0         381       38.5       60.5         382       37.9       59.8         383       37.2       57.8         384       36.5       57.9         385       35.8       55.7	6.2
379       39.3       61.5         380       39.0       61.0         381       38.5       60.5         382       37.9       59.8         383       37.2       57.8         384       36.5       57.9         385       35.8       55.7	
380       39.0       61.0         381       38.5       60.5         382       37.9       59.8         383       37.2       57.8         384       36.5       57.9         385       35.8       55.7	= -
381       38.5       60.5         382       37.9       59.8         383       37.2       57.8         384       36.5       57.9         385       35.8       55.7	-7.6
382       37.9       59.8         383       37.2       57.8         384       36.5       57.9         385       35.8       55.7	-8.9
383       37.2       57.8         384       36.5       57.9         385       35.8       55.7	-9.3
384     36.5     57.9       385     35.8     55.7	-9.2
385 35.8 55.7	-3.5
	6.4
207 25.1 54.2	6.3
386 35.1 54.2	0.3
387 34.3 52.5	-0.8
388 33.4 66.5	48.9
389 32.4 63.1	-10.2
390 31.4 64.2	-10.8
391 30.4 62.8	-10.6
392 29.5 60.9	-10.1
393 28.8 58.3	3.1
394 28.3 60.2	79.0
395 28.1 60.2	89.5
396 27.9 59.6	98.8
397 27.8 60.2	98.9
398 27.7 59.3	98.8
399 27.7 58.7	98.8
400 27.9 59.1	98.8
401 28.1 60.7	99.0
402 28.2 59.7	
403 28.4 58.7	

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
404	28.4	60.6	99.0
405	28.5	59.6	98.8
406	28.3	60.7	99.0
407	27.7	58.7	54.3
408	26.9	72.3	31.9
409	26.0	68.8	72.3
410	25.6	71.2	99.1
411	25.8	73.1	99.0
412	26.5	77.1	99.2
413	27.2	78.2	99.3
414	28.1	80.8	99.7
415	29.0	84.1	99.8
416	29.7	85.5	99.7
417	30.5	87.5	99.5
418	31.2	89.5	99.4
419	31.6	90.4	99.4
120	31.8	92.5	99.4
121	31.5	73.0	-12.0
422	31.0	66.2	96.4
423	30.6	64.4	99.8
124	30.4	63.8	99.6
125	30.4	65.8	99.8
126	30.5	65.2	100.0
127	30.5	65.2	100.0
428	30.6	65.1	100.0
129	30.6	65.1	100.0
430	30.7	65.6	99.9
131	30.8	65.2	100.0
132	30.8	65.1	100.0
433	30.9	65.2	100.0
434	31.0	65.9	99.8
435	31.1	66.3	99.7
136	31.2	67.0	99.6

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
437	31.2	65.5	99.9
438	31.3	66.8	99.6
439	31.3	65.7	99.8
440	31.4	65.5	99.9
441	31.4	66.6	99.7
442	31.5	67.3	99.5
443	31.5	68.0	99.4
444	31.7	67.0	99.6
445	31.9	66.5	99.7
446	32.2	67.8	99.4
447	32.8	69.3	99.2
448	33.2	72.5	99.0
449	33.4	71.0	5.7
450	33.2	70.7	-11.7
451	32.7	69.5	59.8
452	34.3	74.3	99.0
453	35.7	79.2	90.5
454	36.7	70.0	-11.6
455	37.4	58.2	59.8
456	37.9	60.1	92.6
457	38.6	62.0	99.2
458	39.4	62.3	99.3
459	40.3	65.0	100.0
460	41.2	66.6	99.7
461	41.9	66.5	99.7
462	42.5	68.5	53.1
463	42.6	67.1	13.9
464	42.4	66.1	-11.0
465	41.9	65.5	-10.9
466	41.7	65.3	52.2
467	42.0	66.3	80.0
468	42.7	67.8	95.0
469	43.7	69.5	99.2

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
470	44.5	71.9	99.1
471	44.7	73.2	-12.1
472	44.0	71.5	-11.8
473	42.2	66.6	-11.1
474	39.5	60.0	-9.5
475	36.6	53.7	-5.4
476	33.9	50.3	-2.8
477	31.7	47.4	-1.8
478	29.9	44.6	-1.1
479	28.5	43.1	0.0
480	27.4	42.1	0.0
481	26.1	42.1	0.0
482	24.6	38.1	1.1
483	22.8	33.3	0.9
484	21.4	30.8	0.0
485	20.9	38.7	63.8
486	21.2	52.9	-4.3
487	22.3	45.6	75.7
488	23.7	51.2	79.2
489	25.0	51.5	19.4
490	25.9	54.2	5.8
491	26.5	54.7	0.8
492	26.8	56.2	-2.2
493	27.1	56.0	-3.5
494	27.3	56.7	-5.0
495	27.5	56.9	-6.1
496	27.6	57.5	-7.0
497	27.7	57.7	-7.4
498	27.5	56.9	-7.2
499	27.2	56.6	-7.1
500	26.5	56.2	-7.0
501	25.3	51.9	-3.4
502	23.6	50.0	-2.4

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
503	21.4	44.2	-1.3
504	18.7	37.6	1.2
505	15.6	30.8	-0.3
506	12.2	28.3	1.2
507	8.6	27.9	0.0
808	5.3	28.9	1.7
509	2.8	28.9	1.7
510	1.4	27.3	0.5
511	1.0	28.9	1.7
512	1.2	42.6	-0.2
513	1.9	28.0	0.1
514	3.2	50.3	25.6
515	4.9	42.6	56.9
16	6.6	40.2	45.1
517	7.9	47.9	4.6
518	8.7	44.0	1.3
19	9.8	49.8	28.6
520	11.4	54.7	73.7
521	13.6	72.3	59.5
522	15.8	57.7	-8.4
523	17.8	54.7	27.8
524	19.9	56.7	80.4
525	22.0	65.2	88.9
526	23.7	70.3	11.1
527	24.5	71.9	-9.2
28	24.4	67.5	-11.2
529	23.7	65.2	-10.9
30	22.7	61.0	-10.2
31	21.7	57.7	-5.1
332	21.0	56.3	-7.4
533	20.6	54.7	-6.2
534	20.6	54.3	72.7
335	21.1	60.5	78.9

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
536	22.3	65.4	91.1
537	23.9	70.8	99.1
538	25.9	75.7	99.1
539	28.0	82.2	99.9
540	29.7	86.5	8.0
541	31.0	56.5	-6.7
542	32.1	67.0	89.7
543	33.4	71.2	99.1
544	34.8	74.8	99.0
545	36.2	79.0	96.1
546	37.1	80.4	19.6
547	37.5	80.0	6.3
548	37.4	77.8	0.1
549	37.1	76.9	-5.3
550	36.7	76.3	-1.2
551	36.3	74.5	16.9
552	36.0	74.9	7.0
553	35.7	74.0	12.5
554	35.6	73.6	7.7
555	35.5	74.6	38.2
556	35.4	73.6	11.8
557	35.3	74.0	-3.2
558	35.1	73.8	5.0
559	34.8	71.5	9.1
560	34.6	72.2	8.4
561	34.3	71.2	0.9
562	33.8	70.5	-8.2
563	33.2	68.6	-11.3
564	32.5	67.1	-11.1
565	31.7	65.8	-11.0
566	30.9	64.2	-10.8
567	30.1	61.7	-10.5
568	29.1	59.7	-9.4

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
569	27.8	57.7	-8.4
570	26.1	55.3	-6.8
571	23.9	48.4	-2.4
572	21.5	40.8	0.6
573	19.6	37.2	0.9
574	18.2	36.8	1.1
575	17.4	34.7	0.5
576	16.8	34.3	0.9
577	16.4	32.3	0.2
578	15.9	31.4	-0.2
579	15.5	31.3	0.4
580	14.9	30.4	0.0
581	14.1	29.7	-0.3
582	13.0	28.3	-0.6
583	11.5	29.8	0.7
584	9.9	28.8	0.7
585	8.3	28.9	-0.1
586	0.1	28.9	2.1
587	0.5	34.7	22.8
588	1.3	40.1	49.4
589	2.9	45.4	56.0
590	5.2	43.6	56.1
591	7.8	45.3	56.0
592	10.4	61.5	68.8
593	12.6	77.4	61.2
594	14.2	70.5	-12.9
595	15.4	51.1	-6.9
596	16.6	42.7	8.8
597	18.3	52.0	70.2
598	20.9	59.3	79.0
599	24.0	69.5	98.9
600	27.3	80.0	73.8
601	30.1	66.4	-7.6

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
602	32.7	62.9	86.0
603	35.3	68.7	99.0
604	38.0	75.3	98.9
605	40.3	80.6	99.7
606	42.1	76.7	-15.6
607	43.2	56.4	-10.0
608	44.1	58.5	38.1
609	44.9	60.0	80.4
610	45.9	62.0	99.4
611	46.8	63.3	99.9
612	47.7	64.6	99.7
613	48.3	66.0	90.3
614	48.5	65.0	1.8
615	48.3	64.2	-8.6
616	47.5	63.6	-12.3
617	46.4	62.1	-12.2
618	45.2	59.3	-11.8
619	44.2	56.5	-10.9
620	43.7	57.5	0.5
621	43.9	58.4	53.4
622	44.8	60.3	65.1
623	46.3	62.9	67.8
624	48.3	67.0	99.2
625	50.8	70.4	98.9
626	53.6	74.0	98.8
627	56.3	77.5	99.2
628	58.7	80.1	89.4
629	60.6	83.6	-11.9
630	62.0	69.8	79.1
631	63.1	71.6	98.8
632	63.9	72.7	98.8
633	64.7	74.1	98.8
634	65.5	74.8	98.9

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
635	66.1	75.3	46.5
636	66.6	75.5	44.5
637	67.0	75.4	3.5
638	67.3	63.6	-6.9
639	67.4	64.5	73.1
640	67.4	64.6	-6.1
641	67.3	65.0	-7.0
642	67.1	63.8	-6.7
643	66.7	63.7	-6.9
644	66.2	63.2	-6.6
645	65.5	62.5	-8.0
646	64.9	61.7	-7.0
647	64.5	61.4	11.3
648	64.2	61.1	42.8
649	64.1	62.2	83.0
650	64.3	61.5	99.3
651	64.8	62.8	99.7
652	65.6	63.9	99.9
653	66.5	64.7	99.7
654	67.5	65.0	99.6
655	68.4	66.4	99.3
656	69.3	67.7	99.1
657	70.2	68.3	99.0
658	70.9	68.5	99.0
659	71.2	68.6	9.3
660	71.1	68.2	-13.0
661	70.8	68.1	-5.3
662	70.4	67.7	51.3
663	70.1	67.8	59.8
664	69.8	67.1	39.3
665	69.4	67.0	-9.7
666	68.8	65.7	-10.2
667	68.2	64.5	-8.9

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
668	67.5	64.7	0.0
669	67.1	63.8	41.7
670	67.1	64.3	73.2
671	67.5	64.5	99.7
672	68.3	65.6	99.5
673	69.3	66.8	99.3
674	70.3	67.5	99.1
675	71.3	68.5	99.0
676	72.2	68.4	99.0
677	72.9	70.2	98.9
678	73.7	71.3	98.8
679	74.5	72.0	98.8
680	75.3	73.5	98.8
681	76.4	74.5	98.9
682	77.3	74.8	64.0
583	78.2	75.6	46.5
684	78.6	75.8	28.7
685	78.5	75.1	1.8
686	77.8	75.0	6.8
687	76.9	74.0	53.6
588	75.8	73.1	82.5
689	74.8	72.7	98.8
590	74.0	71.3	98.8
591	73.7	70.8	98.8
592	73.9	71.2	98.8
593	74.5	72.2	98.8
594	75.4	73.0	49.4
595	76.4	73.4	37.2
596	77.3	73.9	46.3
697	78.1	74.8	72.3
698	78.5	74.8	72.3
699	78.6	75.2	77.4
700	78.3	75.7	69.3

01       77.8       74.5       -8.6         02       77.2       74.5       -13.2         03       76.8       73.5       -12.4         04       76.6       73.0       -12.3         05       76.8       72.5       -12.2         06       77.0       73.1       -12.9         07       76.8       73.0       -14.6         08       75.8       72.1       -14.7         09       74.3       70.5       -14.3         10       72.2       68.2       -13.5         11       69.8       65.5       -12.9         12       67.8       63.7       -10.2         13       66.3       63.4       40.4         14       65.4       62.8       -3.0         15       64.8       61.5       -3.9         16       64.3       61.1       9.8         17       63.8       61.1       34.5         18       63.2       61.0       37.1         19       62.5       59.8       -7.7         20       61.8       58.5       -10.1         21       61.3       58.0       -10.7<	Time	Vehicle speed	Related engine speed	Related engine torque
02       77.2       74.5       -13.2         03       76.8       73.5       -12.4         04       76.6       73.0       -12.3         05       76.8       72.5       -12.2         06       77.0       73.1       -12.9         07       76.8       73.0       -14.6         08       75.8       72.1       -14.7         09       74.3       70.5       -14.3         10       72.2       68.2       -13.5         11       69.8       65.5       -12.9         12       67.8       63.7       -10.2         13       66.3       63.4       40.4         14       65.4       62.8       -3.0         15       64.8       61.5       -3.9         16       64.3       61.1       9.8         17       63.8       61.1       34.5         18       63.2       61.0       37.1         19       62.5       59.8       -7.7         20       61.8       58.5       -10.1         21       61.3       58.0       -10.7         24       61.3       58.4       -10.5	S	km/h	%	%
03       76.8       73.5       -12.4         04       76.6       73.0       -12.3         05       76.8       72.5       -12.2         06       77.0       73.1       -12.9         07       76.8       73.0       -14.6         08       75.8       72.1       -14.7         09       74.3       70.5       -14.3         10       72.2       68.2       -13.5         11       69.8       65.5       -12.9         12       67.8       63.7       -10.2         13       66.3       63.4       40.4         14       65.4       62.8       -3.0         15       64.8       61.5       -3.9         16       64.3       61.1       9.8         17       63.8       61.1       34.5         18       63.2       61.0       37.1         19       62.5       59.8       -7.7         20       61.8       58.5       -10.1         21       61.3       58.0       -10.4         22       60.9       58.1       -11.2         23       61.0       58.4       -9.3<	701	77.8	74.5	-8.6
004       76.6       73.0       -12.3         005       76.8       72.5       -12.2         006       77.0       73.1       -12.9         007       76.8       73.0       -14.6         008       75.8       72.1       -14.7         009       74.3       70.5       -14.3         110       72.2       68.2       -13.5         11       69.8       65.5       -12.9         12       67.8       63.7       -10.2         13       66.3       63.4       40.4         14       65.4       62.8       -3.0         15       64.8       61.5       -3.9         16       64.3       61.1       9.8         17       63.8       61.1       34.5         18       63.2       61.0       37.1         19       62.5       59.8       -7.7         20       61.8       58.5       -10.1         21       61.3       58.0       -10.4         22       60.9       58.1       -11.2         23       61.0       58.4       -9.3         24       61.3       58.4 <td< td=""><td>702</td><td>77.2</td><td>74.5</td><td>-13.2</td></td<>	702	77.2	74.5	-13.2
05       76.8       72.5       -12.2         06       77.0       73.1       -12.9         07       76.8       73.0       -14.6         08       75.8       72.1       -14.7         09       74.3       70.5       -14.3         10       72.2       68.2       -13.5         11       69.8       65.5       -12.9         12       67.8       63.7       -10.2         13       66.3       63.4       40.4         14       65.4       62.8       -3.0         15       64.8       61.5       -3.9         16       64.3       61.1       9.8         17       63.8       61.1       34.5         18       63.2       61.0       37.1         19       62.5       59.8       -7.7         20       61.8       58.5       -10.1         21       61.3       58.0       -10.4         22       60.9       58.1       -11.2         23       61.0       58.4       -9.3         24       61.3       58.4       -10.5         25       61.6       58.4       -9.3 </td <td>703</td> <td>76.8</td> <td>73.5</td> <td>-12.4</td>	703	76.8	73.5	-12.4
06       77.0       73.1       -12.9         07       76.8       73.0       -14.6         08       75.8       72.1       -14.7         09       74.3       70.5       -14.3         10       72.2       68.2       -13.5         11       69.8       65.5       -12.9         12       67.8       63.7       -10.2         13       66.3       63.4       40.4         14       65.4       62.8       -3.0         15       64.8       61.5       -3.9         16       64.3       61.1       9.8         17       63.8       61.1       34.5         18       63.2       61.0       37.1         19       62.5       59.8       -7.7         20       61.8       58.5       -10.1         21       61.3       58.0       -10.4         22       60.9       58.1       -11.2         23       61.0       58.0       -10.7         24       61.3       58.4       -9.3         25       61.6       58.4       -9.3         26       62.0       59.4       17.4 <td>704</td> <td>76.6</td> <td>73.0</td> <td>-12.3</td>	704	76.6	73.0	-12.3
07       76.8       73.0       -14.6         08       75.8       72.1       -14.7         09       74.3       70.5       -14.3         10       72.2       68.2       -13.5         11       69.8       65.5       -12.9         12       67.8       63.7       -10.2         13       66.3       63.4       40.4         14       65.4       62.8       -3.0         15       64.8       61.5       -3.9         16       64.3       61.1       9.8         17       63.8       61.1       34.5         18       63.2       61.0       37.1         19       62.5       59.8       -7.7         20       61.8       58.5       -10.1         21       61.3       58.0       -10.4         22       60.9       58.1       -11.2         23       61.0       58.0       -10.7         24       61.3       58.4       -9.3         25       61.6       58.4       -9.3         26       62.0       59.4       17.4         27       62.4       60.7       29.0 <td>705</td> <td>76.8</td> <td>72.5</td> <td>-12.2</td>	705	76.8	72.5	-12.2
08       75.8       72.1       -14.7         09       74.3       70.5       -14.3         10       72.2       68.2       -13.5         11       69.8       65.5       -12.9         12       67.8       63.7       -10.2         13       66.3       63.4       40.4         14       65.4       62.8       -3.0         15       64.8       61.5       -3.9         16       64.3       61.1       9.8         17       63.8       61.1       34.5         18       63.2       61.0       37.1         19       62.5       59.8       -7.7         20       61.8       58.5       -10.1         21       61.3       58.0       -10.4         22       60.9       58.1       -11.2         23       61.0       58.0       -10.7         24       61.3       58.4       -9.3         25       61.6       58.4       -9.3         26       62.0       59.4       17.4         27       62.4       60.7       29.0         28       62.6       60.1       -2.9	706	77.0	73.1	-12.9
09       74.3       70.5       -14.3         10       72.2       68.2       -13.5         11       69.8       65.5       -12.9         12       67.8       63.7       -10.2         13       66.3       63.4       40.4         14       65.4       62.8       -3.0         15       64.8       61.5       -3.9         16       64.3       61.1       9.8         17       63.8       61.1       34.5         18       63.2       61.0       37.1         19       62.5       59.8       -7.7         20       61.8       58.5       -10.1         21       61.3       58.0       -10.4         22       60.9       58.1       -11.2         23       61.0       58.0       -10.7         24       61.3       58.4       -9.3         25       61.6       58.4       -9.3         26       62.0       59.4       17.4         27       62.4       60.7       29.0         28       62.6       60.1       -2.9         29       62.6       59.9       -3.7	707	76.8	73.0	-14.6
10       72.2       68.2       -13.5         11       69.8       65.5       -12.9         12       67.8       63.7       -10.2         13       66.3       63.4       40.4         14       65.4       62.8       -3.0         15       64.8       61.5       -3.9         16       64.3       61.1       9.8         17       63.8       61.1       34.5         18       63.2       61.0       37.1         19       62.5       59.8       -7.7         20       61.8       58.5       -10.1         21       61.3       58.0       -10.4         22       60.9       58.1       -11.2         23       61.0       58.0       -10.7         24       61.3       58.4       -10.5         25       61.6       58.4       -9.3         26       62.0       59.4       17.4         27       62.4       60.7       29.0         28       62.6       60.1       -2.9         29       62.6       59.9       -3.7         30       62.3       55.7       10.7	708	75.8	72.1	-14.7
11       69.8       65.5       -12.9         12       67.8       63.7       -10.2         13       66.3       63.4       40.4         14       65.4       62.8       -3.0         15       64.8       61.5       -3.9         16       64.3       61.1       9.8         17       63.8       61.1       34.5         18       63.2       61.0       37.1         19       62.5       59.8       -7.7         20       61.8       58.5       -10.1         21       61.3       58.0       -10.4         22       60.9       58.1       -11.2         23       61.0       58.0       -10.7         24       61.3       58.4       -10.5         25       61.6       58.4       -9.3         26       62.0       59.4       17.4         27       62.4       60.7       29.0         28       62.6       60.1       -2.9         29       62.6       59.9       -3.7         30       62.3       55.7       10.7         31       61.5       69.1       -12.1	709	74.3	70.5	-14.3
112       67.8       63.7       -10.2         113       66.3       63.4       40.4         114       65.4       62.8       -3.0         115       64.8       61.5       -3.9         116       64.3       61.1       9.8         117       63.8       61.1       34.5         118       63.2       61.0       37.1         119       62.5       59.8       -7.7         20       61.8       58.5       -10.1         21       61.3       58.0       -10.4         22       60.9       58.1       -11.2         23       61.0       58.0       -10.7         24       61.3       58.4       -10.5         25       61.6       58.4       -9.3         26       62.0       59.4       17.4         27       62.4       60.7       29.0         28       62.6       60.1       -2.9         29       62.6       59.9       -3.7         30       62.3       55.7       10.7         31       61.5       69.1       -12.1         32       60.0       69.3       -13	710	72.2	68.2	-13.5
113       66.3       63.4       40.4         114       65.4       62.8       -3.0         115       64.8       61.5       -3.9         116       64.3       61.1       9.8         117       63.8       61.1       34.5         118       63.2       61.0       37.1         119       62.5       59.8       -7.7         20       61.8       58.5       -10.1         21       61.3       58.0       -10.4         22       60.9       58.1       -11.2         23       61.0       58.0       -10.7         24       61.3       58.4       -10.5         25       61.6       58.4       -9.3         26       62.0       59.4       17.4         27       62.4       60.7       29.0         28       62.6       60.1       -2.9         29       62.6       59.9       -3.7         30       62.3       55.7       10.7         31       61.5       69.1       -12.1         32       60.0       69.3       -13.7	711	69.8	65.5	-12.9
14       65.4       62.8       -3.0         15       64.8       61.5       -3.9         16       64.3       61.1       9.8         17       63.8       61.1       34.5         18       63.2       61.0       37.1         19       62.5       59.8       -7.7         20       61.8       58.5       -10.1         21       61.3       58.0       -10.4         22       60.9       58.1       -11.2         23       61.0       58.0       -10.7         24       61.3       58.4       -10.5         25       61.6       58.4       -9.3         26       62.0       59.4       17.4         27       62.4       60.7       29.0         28       62.6       60.1       -2.9         29       62.6       59.9       -3.7         30       62.3       55.7       10.7         31       61.5       69.1       -12.1         32       60.0       69.3       -13.7	712	67.8	63.7	-10.2
15       64.8       61.5       -3.9         16       64.3       61.1       9.8         17       63.8       61.1       34.5         18       63.2       61.0       37.1         19       62.5       59.8       -7.7         20       61.8       58.5       -10.1         21       61.3       58.0       -10.4         22       60.9       58.1       -11.2         23       61.0       58.0       -10.7         24       61.3       58.4       -10.5         25       61.6       58.4       -9.3         26       62.0       59.4       17.4         27       62.4       60.7       29.0         28       62.6       60.1       -2.9         29       62.6       59.9       -3.7         30       62.3       55.7       10.7         31       61.5       69.1       -12.1         32       60.0       69.3       -13.7	713	66.3	63.4	40.4
16       64.3       61.1       9.8         17       63.8       61.1       34.5         18       63.2       61.0       37.1         19       62.5       59.8       -7.7         20       61.8       58.5       -10.1         21       61.3       58.0       -10.4         22       60.9       58.1       -11.2         23       61.0       58.0       -10.7         24       61.3       58.4       -10.5         25       61.6       58.4       -9.3         26       62.0       59.4       17.4         27       62.4       60.7       29.0         28       62.6       60.1       -2.9         29       62.6       59.9       -3.7         30       62.3       55.7       10.7         31       61.5       69.1       -12.1         32       60.0       69.3       -13.7	714	65.4	62.8	-3.0
17       63.8       61.1       34.5         18       63.2       61.0       37.1         19       62.5       59.8       -7.7         20       61.8       58.5       -10.1         21       61.3       58.0       -10.4         22       60.9       58.1       -11.2         23       61.0       58.0       -10.7         24       61.3       58.4       -10.5         25       61.6       58.4       -9.3         26       62.0       59.4       17.4         27       62.4       60.7       29.0         28       62.6       60.1       -2.9         29       62.6       59.9       -3.7         30       62.3       55.7       10.7         31       61.5       69.1       -12.1         32       60.0       69.3       -13.7	715	64.8	61.5	-3.9
18       63.2       61.0       37.1         19       62.5       59.8       -7.7         20       61.8       58.5       -10.1         21       61.3       58.0       -10.4         22       60.9       58.1       -11.2         23       61.0       58.0       -10.7         24       61.3       58.4       -10.5         25       61.6       58.4       -9.3         26       62.0       59.4       17.4         27       62.4       60.7       29.0         28       62.6       60.1       -2.9         29       62.6       59.9       -3.7         30       62.3       55.7       10.7         31       61.5       69.1       -12.1         32       60.0       69.3       -13.7	716	64.3	61.1	9.8
19       62.5       59.8       -7.7         20       61.8       58.5       -10.1         21       61.3       58.0       -10.4         22       60.9       58.1       -11.2         23       61.0       58.0       -10.7         24       61.3       58.4       -10.5         25       61.6       58.4       -9.3         26       62.0       59.4       17.4         27       62.4       60.7       29.0         28       62.6       60.1       -2.9         29       62.6       59.9       -3.7         30       62.3       55.7       10.7         31       61.5       69.1       -12.1         32       60.0       69.3       -13.7	717	63.8	61.1	34.5
20       61.8       58.5       -10.1         21       61.3       58.0       -10.4         22       60.9       58.1       -11.2         23       61.0       58.0       -10.7         24       61.3       58.4       -10.5         25       61.6       58.4       -9.3         26       62.0       59.4       17.4         27       62.4       60.7       29.0         28       62.6       60.1       -2.9         29       62.6       59.9       -3.7         30       62.3       55.7       10.7         31       61.5       69.1       -12.1         32       60.0       69.3       -13.7	718	63.2	61.0	37.1
21       61.3       58.0       -10.4         22       60.9       58.1       -11.2         23       61.0       58.0       -10.7         24       61.3       58.4       -10.5         25       61.6       58.4       -9.3         26       62.0       59.4       17.4         27       62.4       60.7       29.0         28       62.6       60.1       -2.9         29       62.6       59.9       -3.7         30       62.3       55.7       10.7         31       61.5       69.1       -12.1         32       60.0       69.3       -13.7	719	62.5	59.8	-7.7
22       60.9       58.1       -11.2         23       61.0       58.0       -10.7         24       61.3       58.4       -10.5         25       61.6       58.4       -9.3         26       62.0       59.4       17.4         27       62.4       60.7       29.0         28       62.6       60.1       -2.9         29       62.6       59.9       -3.7         30       62.3       55.7       10.7         31       61.5       69.1       -12.1         32       60.0       69.3       -13.7	720	61.8	58.5	-10.1
23       61.0       58.0       -10.7         24       61.3       58.4       -10.5         25       61.6       58.4       -9.3         26       62.0       59.4       17.4         27       62.4       60.7       29.0         28       62.6       60.1       -2.9         29       62.6       59.9       -3.7         30       62.3       55.7       10.7         31       61.5       69.1       -12.1         32       60.0       69.3       -13.7	721	61.3	58.0	-10.4
24       61.3       58.4       -10.5         25       61.6       58.4       -9.3         26       62.0       59.4       17.4         27       62.4       60.7       29.0         28       62.6       60.1       -2.9         29       62.6       59.9       -3.7         30       62.3       55.7       10.7         31       61.5       69.1       -12.1         32       60.0       69.3       -13.7	722	60.9	58.1	-11.2
25       61.6       58.4       -9.3         26       62.0       59.4       17.4         27       62.4       60.7       29.0         28       62.6       60.1       -2.9         29       62.6       59.9       -3.7         30       62.3       55.7       10.7         31       61.5       69.1       -12.1         32       60.0       69.3       -13.7	723	61.0	58.0	-10.7
26       62.0       59.4       17.4         27       62.4       60.7       29.0         28       62.6       60.1       -2.9         29       62.6       59.9       -3.7         30       62.3       55.7       10.7         31       61.5       69.1       -12.1         32       60.0       69.3       -13.7	724	61.3	58.4	-10.5
27       62.4       60.7       29.0         28       62.6       60.1       -2.9         29       62.6       59.9       -3.7         30       62.3       55.7       10.7         31       61.5       69.1       -12.1         32       60.0       69.3       -13.7	725	61.6	58.4	-9.3
28       62.6       60.1       -2.9         29       62.6       59.9       -3.7         30       62.3       55.7       10.7         31       61.5       69.1       -12.1         32       60.0       69.3       -13.7	726	62.0	59.4	17.4
29       62.6       59.9       -3.7         30       62.3       55.7       10.7         31       61.5       69.1       -12.1         32       60.0       69.3       -13.7	727	62.4	60.7	29.0
30     62.3     55.7     10.7       31     61.5     69.1     -12.1       32     60.0     69.3     -13.7	728	62.6	60.1	-2.9
31 61.5 69.1 -12.1 32 60.0 69.3 -13.7	729	62.6	59.9	-3.7
32 60.0 69.3 -13.7	730	62.3	55.7	10.7
	731	61.5	69.1	-12.1
33 57.7 65.7 –12.9	732	60.0	69.3	-13.7
	733	57.7	65.7	-12.9

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
734	55.0	60.3	-11.9
735	52.6	57.3	-11.0
736	51.2	56.5	16.5
737	50.8	56.3	73.2
738	51.2	57.0	89.8
739	51.8	58.8	98.6
740	52.5	59.8	98.8
741	53.2	61.0	99.1
742	54.0	61.1	99.2
743	54.9	62.9	99.7
744	55.7	63.5	100.0
745	56.5	64.1	99.9
746	57.1	64.1	99.9
747	57.5	65.6	99.5
748	57.9	65.9	99.4
749	58.2	66.6	99.3
750	58.6	66.3	99.3
751	59.2	67.3	99.2
752	60.2	68.2	99.1
753	61.5	69.0	99.0
754	63.0	72.6	98.8
755	64.6	74.5	47.4
756	65.9	74.7	1.8
757	66.9	75.8	-4.1
758	67.6	63.6	-9.7
759	68.0	65.7	46.0
760	68.5	66.1	61.0
761	69.1	66.3	-3.3
762	69.8	65.9	20.4
763	70.4	67.2	56.7
764	71.0	68.1	59.8
765	71.6	68.6	49.2
766	72.2	69.1	33.7

s         km/h         %         %           767         72.8         69.4         96.0           768         73.4         70.4         98.9           769         73.9         71.0         98.8           770         74.5         72.3         98.8           771         75.1         72.9         98.8           772         75.7         73.4         98.8           773         76.2         73.4         98.8           774         76.4         74.3         98.9           775         76.2         73.7         46.3           776         75.8         73.1         -12.9           777         75.2         71.6         -12.6           778         74.4         70.5         -12.6           779         73.6         69.4         -12.1           780         72.8         68.6         -10.1           781         72.1         68.5         9.3           782         71.7         68.0         26.3           783         71.6         67.7         42.8           784         71.7         68.3         47.1           785	Time	Vehicle speed	Related engine speed	Related engine torque
768       73.4       70.4       98.9         769       73.9       71.0       98.8         770       74.5       72.3       98.8         771       75.1       72.9       98.8         772       75.7       73.4       98.8         773       76.2       73.4       98.8         774       76.4       74.3       98.9         775       76.2       73.7       46.3         776       75.8       73.1       -12.9         777       75.2       71.6       -12.6         778       74.4       70.5       -12.6         779       73.6       69.4       -12.1         780       72.8       68.6       -10.1         781       72.1       68.5       9.3         782       71.7       68.0       26.3         783       71.6       67.7       42.8         784       71.7       68.3       47.1         785       72.1       69.0       52.4         786       72.8       70.0       50.3         787       73.3       70.4       20.6         788       73.6       70.5	S	km/h	%	-
769       73.9       71.0       98.8         770       74.5       72.3       98.8         771       75.1       72.9       98.8         772       75.7       73.4       98.8         773       76.2       73.4       98.8         774       76.4       74.3       98.9         775       76.2       73.7       46.3         776       75.8       73.1       -12.9         777       75.2       71.6       -12.6         778       74.4       70.5       -12.6         779       73.6       69.4       -12.1         780       72.8       68.6       -10.1         781       72.1       68.5       9.3         782       71.7       68.0       26.3         783       71.6       67.7       42.8         784       71.7       68.3       47.1         785       72.1       69.0       52.4         786       72.8       70.0       50.3         787       73.3       70.4       20.6         788       73.6       70.5       -4.9         789       73.8       70.9	767	72.8	69.4	96.0
770       74.5       72.3       98.8         771       75.1       72.9       98.8         772       75.7       73.4       98.8         773       76.2       73.4       98.8         774       76.4       74.3       98.9         775       76.2       73.7       46.3         776       75.8       73.1       -12.9         777       75.2       71.6       -12.6         778       74.4       70.5       -12.6         779       73.6       69.4       -12.1         780       72.8       68.6       -10.1         781       72.1       68.5       9.3         782       71.7       68.0       26.3         783       71.6       67.7       42.8         784       71.7       68.3       47.1         785       72.1       69.0       52.4         786       72.8       70.0       50.3         787       73.3       70.4       20.6         788       73.6       70.5       -4.9         789       73.8       70.9       -5.6         790       73.9       70.4	768	73.4	70.4	98.9
771       75.1       72.9       98.8         772       75.7       73.4       98.8         773       76.2       73.4       98.8         774       76.4       74.3       98.9         775       76.2       73.7       46.3         776       75.8       73.1       -12.9         777       75.2       71.6       -12.6         778       74.4       70.5       -12.6         779       73.6       69.4       -12.1         780       72.8       68.6       -10.1         781       72.1       68.5       9.3         782       71.7       68.0       26.3         783       71.6       67.7       42.8         784       71.7       68.3       47.1         785       72.1       69.0       52.4         786       72.8       70.0       50.3         787       73.3       70.4       20.6         788       73.6       70.5       -4.9         789       73.8       70.9       -5.6         790       73.9       70.4       -0.7         791       74.2       71.7	769	73.9	71.0	98.8
7772       75.7       73.4       98.8         7773       76.2       73.4       98.8         7774       76.4       74.3       98.9         7775       76.2       73.7       46.3         7776       75.8       73.1       -12.9         7777       75.2       71.6       -12.6         7778       74.4       70.5       -12.6         7779       73.6       69.4       -12.1         780       72.8       68.6       -10.1         781       72.1       68.5       9.3         782       71.7       68.0       26.3         783       71.6       67.7       42.8         784       71.7       68.3       47.1         785       72.1       69.0       52.4         786       72.8       70.0       50.3         787       73.3       70.4       20.6         788       73.6       70.5       -4.9         789       73.8       70.9       -5.6         790       73.9       70.4       -0.7         791       74.2       71.7       9.7         792       74.3       70.9<	770	74.5	72.3	98.8
7773       76.2       73.4       98.8         7774       76.4       74.3       98.9         7775       76.2       73.7       46.3         776       75.8       73.1       -12.9         7777       75.2       71.6       -12.6         7778       74.4       70.5       -12.6         779       73.6       69.4       -12.1         780       72.8       68.6       -10.1         781       72.1       68.5       9.3         782       71.7       68.0       26.3         783       71.6       67.7       42.8         784       71.7       68.3       47.1         785       72.1       69.0       52.4         786       72.8       70.0       50.3         787       73.3       70.4       20.6         788       73.6       70.5       -4.9         789       73.8       70.9       -5.6         790       73.9       70.4       -0.7         791       74.2       71.7       9.7         792       74.3       70.9       9.6         793       74.5       71.4	771	75.1	72.9	98.8
7774       76.4       74.3       98.9         7775       76.2       73.7       46.3         7776       75.8       73.1       -12.9         7777       75.2       71.6       -12.6         7778       74.4       70.5       -12.6         7779       73.6       69.4       -12.1         780       72.8       68.6       -10.1         781       72.1       68.5       9.3         782       71.7       68.0       26.3         783       71.6       67.7       42.8         784       71.7       68.3       47.1         785       72.1       69.0       52.4         786       72.8       70.0       50.3         787       73.3       70.4       20.6         788       73.6       70.5       -4.9         789       73.8       70.9       -5.6         790       73.9       70.4       -0.7         791       74.2       71.7       9.7         792       74.3       70.9       9.6         793       74.5       71.4       9.6         794       74.4       71.1	772	75.7	73.4	98.8
775       76.2       73.7       46.3         776       75.8       73.1       -12.9         777       75.2       71.6       -12.6         778       74.4       70.5       -12.6         779       73.6       69.4       -12.1         780       72.8       68.6       -10.1         781       72.1       68.5       9.3         782       71.7       68.0       26.3         783       71.6       67.7       42.8         784       71.7       68.3       47.1         785       72.1       69.0       52.4         786       72.8       70.0       50.3         787       73.3       70.4       20.6         788       73.6       70.5       -4.9         789       73.8       70.9       -5.6         790       73.9       70.4       -0.7         791       74.2       71.7       9.7         792       74.3       70.9       9.6         793       74.5       71.4       9.6         794       74.4       71.1       9.6         795       74.3       71.4	773	76.2	73.4	98.8
776       75.8       73.1       -12.9         777       75.2       71.6       -12.6         778       74.4       70.5       -12.6         779       73.6       69.4       -12.1         780       72.8       68.6       -10.1         781       72.1       68.5       9.3         782       71.7       68.0       26.3         783       71.6       67.7       42.8         784       71.7       68.3       47.1         785       72.1       69.0       52.4         786       72.8       70.0       50.3         787       73.3       70.4       20.6         788       73.6       70.5       -4.9         789       73.8       70.9       -5.6         790       73.9       70.4       -0.7         791       74.2       71.7       9.7         792       74.3       70.9       9.6         793       74.5       71.4       9.6         795       74.3       71.4       9.6         796       74.3       71.4       9.6         797       74.4       71.7       <	774	76.4	74.3	98.9
7777       75.2       71.6       -12.6         7778       74.4       70.5       -12.6         7779       73.6       69.4       -12.1         780       72.8       68.6       -10.1         781       72.1       68.5       9.3         782       71.7       68.0       26.3         783       71.6       67.7       42.8         784       71.7       68.3       47.1         785       72.1       69.0       52.4         786       72.8       70.0       50.3         787       73.3       70.4       20.6         788       73.6       70.5       -4.9         789       73.8       70.9       -5.6         790       73.9       70.4       -0.7         791       74.2       71.7       9.7         792       74.3       70.9       9.6         793       74.5       71.4       9.6         795       74.3       71.4       9.6         796       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6	775	76.2	73.7	46.3
778       74.4       70.5       -12.6         779       73.6       69.4       -12.1         780       72.8       68.6       -10.1         781       72.1       68.5       9.3         782       71.7       68.0       26.3         783       71.6       67.7       42.8         784       71.7       68.3       47.1         785       72.1       69.0       52.4         786       72.8       70.0       50.3         787       73.3       70.4       20.6         788       73.6       70.5       -4.9         789       73.8       70.9       -5.6         790       73.9       70.4       -0.7         791       74.2       71.7       9.7         792       74.3       70.9       9.6         793       74.5       71.4       9.6         794       74.4       71.1       9.6         795       74.3       71.4       9.6         796       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6	776	75.8	73.1	-12.9
779       73.6       69.4       -12.1         780       72.8       68.6       -10.1         781       72.1       68.5       9.3         782       71.7       68.0       26.3         783       71.6       67.7       42.8         784       71.7       68.3       47.1         785       72.1       69.0       52.4         786       72.8       70.0       50.3         787       73.3       70.4       20.6         788       73.6       70.5       -4.9         789       73.8       70.9       -5.6         790       73.9       70.4       -0.7         791       74.2       71.7       9.7         792       74.3       70.9       9.6         793       74.5       71.4       9.6         794       74.4       71.1       9.6         795       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6       20.7	777	75.2	71.6	-12.6
780       72.8       68.6       -10.1         781       72.1       68.5       9.3         782       71.7       68.0       26.3         783       71.6       67.7       42.8         784       71.7       68.3       47.1         785       72.1       69.0       52.4         786       72.8       70.0       50.3         787       73.3       70.4       20.6         788       73.6       70.5       -4.9         789       73.8       70.9       -5.6         790       73.9       70.4       -0.7         791       74.2       71.7       9.7         792       74.3       70.9       9.6         793       74.5       71.4       9.6         794       74.4       71.1       9.6         795       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6       20.7	778	74.4	70.5	-12.6
781       72.1       68.5       9.3         782       71.7       68.0       26.3         783       71.6       67.7       42.8         784       71.7       68.3       47.1         785       72.1       69.0       52.4         786       72.8       70.0       50.3         787       73.3       70.4       20.6         788       73.6       70.5       -4.9         789       73.8       70.9       -5.6         790       73.9       70.4       -0.7         791       74.2       71.7       9.7         792       74.3       70.9       9.6         793       74.5       71.4       9.6         794       74.4       71.1       9.6         795       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6       20.7	779	73.6	69.4	-12.1
782       71.7       68.0       26.3         783       71.6       67.7       42.8         784       71.7       68.3       47.1         785       72.1       69.0       52.4         786       72.8       70.0       50.3         787       73.3       70.4       20.6         788       73.6       70.5       -4.9         789       73.8       70.9       -5.6         790       73.9       70.4       -0.7         791       74.2       71.7       9.7         792       74.3       70.9       9.6         793       74.5       71.4       9.6         794       74.4       71.1       9.6         795       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6       20.7	780	72.8	68.6	-10.1
783       71.6       67.7       42.8         784       71.7       68.3       47.1         785       72.1       69.0       52.4         786       72.8       70.0       50.3         787       73.3       70.4       20.6         788       73.6       70.5       -4.9         789       73.8       70.9       -5.6         790       73.9       70.4       -0.7         791       74.2       71.7       9.7         792       74.3       70.9       9.6         793       74.5       71.4       9.6         794       74.4       71.1       9.6         795       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6       20.7	781	72.1	68.5	9.3
784       71.7       68.3       47.1         785       72.1       69.0       52.4         786       72.8       70.0       50.3         787       73.3       70.4       20.6         788       73.6       70.5       -4.9         789       73.8       70.9       -5.6         790       73.9       70.4       -0.7         791       74.2       71.7       9.7         792       74.3       70.9       9.6         793       74.5       71.4       9.6         794       74.4       71.1       9.6         795       74.3       71.4       6.2         796       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6       20.7	782	71.7	68.0	26.3
785       72.1       69.0       52.4         786       72.8       70.0       50.3         787       73.3       70.4       20.6         788       73.6       70.5       -4.9         789       73.8       70.9       -5.6         790       73.9       70.4       -0.7         791       74.2       71.7       9.7         792       74.3       70.9       9.6         793       74.5       71.4       9.6         794       74.4       71.1       9.6         795       74.3       71.4       6.2         796       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6       20.7	783	71.6	67.7	42.8
786       72.8       70.0       50.3         787       73.3       70.4       20.6         788       73.6       70.5       -4.9         789       73.8       70.9       -5.6         790       73.9       70.4       -0.7         791       74.2       71.7       9.7         792       74.3       70.9       9.6         793       74.5       71.4       9.6         794       74.4       71.1       9.6         795       74.3       71.4       6.2         796       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6       20.7	784	71.7	68.3	47.1
787       73.3       70.4       20.6         788       73.6       70.5       -4.9         789       73.8       70.9       -5.6         790       73.9       70.4       -0.7         791       74.2       71.7       9.7         792       74.3       70.9       9.6         793       74.5       71.4       9.6         794       74.4       71.1       9.6         795       74.3       71.4       6.2         796       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6       20.7	785	72.1	69.0	52.4
788       73.6       70.5       -4.9         789       73.8       70.9       -5.6         790       73.9       70.4       -0.7         791       74.2       71.7       9.7         792       74.3       70.9       9.6         793       74.5       71.4       9.6         794       74.4       71.1       9.6         795       74.3       71.4       6.2         796       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6       20.7	786	72.8	70.0	50.3
789       73.8       70.9       -5.6         790       73.9       70.4       -0.7         791       74.2       71.7       9.7         792       74.3       70.9       9.6         793       74.5       71.4       9.6         794       74.4       71.1       9.6         795       74.3       71.4       6.2         796       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6       20.7	787	73.3	70.4	20.6
790       73.9       70.4       -0.7         791       74.2       71.7       9.7         792       74.3       70.9       9.6         793       74.5       71.4       9.6         794       74.4       71.1       9.6         795       74.3       71.4       6.2         796       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6       20.7	788	73.6	70.5	-4.9
791       74.2       71.7       9.7         792       74.3       70.9       9.6         793       74.5       71.4       9.6         794       74.4       71.1       9.6         795       74.3       71.4       6.2         796       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6       20.7	789	73.8	70.9	-5.6
792       74.3       70.9       9.6         793       74.5       71.4       9.6         794       74.4       71.1       9.6         795       74.3       71.4       6.2         796       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6       20.7	790	73.9	70.4	-0.7
793       74.5       71.4       9.6         794       74.4       71.1       9.6         795       74.3       71.4       6.2         796       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6       20.7	791	74.2	71.7	9.7
794       74.4       71.1       9.6         795       74.3       71.4       6.2         796       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6       20.7	792	74.3	70.9	9.6
795       74.3       71.4       6.2         796       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6       20.7	793	74.5	71.4	9.6
796       74.3       71.4       9.6         797       74.4       71.7       13.1         798       74.6       71.6       20.7	794	74.4	71.1	9.6
797     74.4     71.7     13.1       798     74.6     71.6     20.7	795	74.3	71.4	6.2
798 74.6 71.6 20.7	796	74.3	71.4	9.6
	797	74.4	71.7	13.1
799 74.8 71.4 31.0	798	74.6	71.6	20.7
	799	74.8	71.4	31.0

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
800	75.0	71.8	42.0
801	75.3	72.5	52.5
802	75.6	72.0	51.4
803	75.9	72.3	57.7
804	76.5	73.4	98.8
805	77.2	73.9	96.1
806	77.7	74.7	45.4
807	77.9	74.3	5.0
808	77.7	73.5	3.2
809	77.3	73.3	14.9
810	77.0	73.9	35.8
811	76.9	74.3	73.3
812	76.9	74.5	37.4
813	76.9	74.4	21.0
814	77.0	74.0	21.0
815	76.9	73.5	18.0
816	76.4	73.1	32.7
817	75.4	72.6	46.2
818	74.1	71.3	45.1
819	72.6	69.5	43.9
820	71.3	67.7	42.8
821	70.2	67.3	65.2
822	69.4	66.3	62.1
823	68.8	66.0	30.6
824	68.1	64.5	-0.1
825	67.4	63.2	-3.4
826	66.8	62.7	-3.0
827	66.5	62.0	-0.6
828	66.6	62.0	9.4
829	67.1	63.9	41.7
830	68.0	64.6	37.8
831	69.0	65.9	20.4
832	70.1	67.2	30.7

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
333	71.3	68.8	41.8
34	72.4	70.5	26.5
335	73.5	69.5	-7.5
36	74.3	70.7	-10.4
37	74.8	71.3	-11.6
38	75.1	71.6	-11.1
39	75.4	72.2	-11.2
40	75.7	72.7	-11.6
41	76.1	73.2	-12.0
42	76.4	73.1	-12.3
43	76.4	72.5	-10.7
44	76.3	74.0	-3.4
45	76.1	72.7	-0.3
46	76.0	72.5	29.7
47	75.6	71.6	-12.6
48	74.8	70.8	-14.1
49	73.2	69.5	-13.8
350	71.1	65.9	-13.2
51	68.8	63.8	-12.5
352	66.8	62.3	-2.6
53	65.5	61.6	38.8
54	64.6	62.0	35.1
355	64.0	61.8	-9.3
56	63.4	60.2	-7.2
57	62.7	59.3	-1.3
58	62.2	58.8	2.1
59	61.9	58.4	2.4
660	62.2	59.8	68.8
61	62.8	60.4	89.2
62	63.8	61.4	99.2
663	64.7	62.0	99.4
664	65.5	62.7	99.7
U-T	05.5	04.7	11.1

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
866	67.1	65.1	99.6
867	68.0	65.9	99.4
368	68.8	66.4	99.3
369	69.6	67.2	99.2
370	70.4	68.2	99.1
371	71.2	69.0	99.0
372	72.1	69.5	98.9
373	73.1	70.0	98.9
874	74.1	71.7	31.1
375	74.9	71.5	-3.9
376	75.3	71.6	-5.6
377	75.4	71.7	6.3
378	75.3	72.4	19.3
879	75.2	71.6	1.2
380	75.2	71.7	2.9
381	75.1	72.3	34.1
382	75.2	72.5	13.2
383	75.2	72.5	16.4
384	75.1	72.2	16.4
385	75.0	72.3	-3.7
386	74.9	72.7	-2.0
387	74.9	72.7	4.8
388	74.9	72.0	22.3
389	75.0	71.8	38.5
390	75.1	71.5	29.6
391	75.2	71.5	26.6
392	75.1	71.7	28.1
393	74.9	71.9	29.6
394	74.7	71.8	16.3
395	74.7	71.2	-4.8
896	74.6	71.3	-4.0
397	74.3	70.9	19.2
398	73.9	70.9	32.5

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
399	73.6	71.0	17.8
900	73.4	70.5	19.2
901	73.4	69.8	38.2
902	73.4	70.3	45.0
903	73.3	69.9	32.4
904	73.0	69.8	23.5
905	72.7	70.0	40.8
906	72.4	69.1	-4.4
907	72.2	69.0	-4.4
908	71.9	68.6	-4.5
009	71.7	68.2	-8.0
910	71.3	68.1	0.6
911	70.9	68.1	26.3
012	70.7	67.8	29.2
013	70.6	67.6	20.5
014	70.5	67.5	-1.3
015	70.3	66.8	-1.4
916	70.3	66.4	17.5
917	70.2	66.8	29.2
018	70.1	66.8	29.2
019	69.9	67.3	16.0
920	69.9	67.3	26.3
921	70.1	67.5	36.5
922	70.3	67.3	19.0
923	70.5	67.3	9.2
924	70.7	67.3	21.9
925	70.9	67.7	42.8
926	70.9	67.7	38.0
927	70.7	67.7	11.0
928	70.4	67.7	35.1
929	68.8	66.0	7.3
930	68.5	65.5	5.4
931	68.1	64.7	27.6

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
932	67.8	64.5	32.0
933	67.6	64.7	33.4
934	67.6	64.6	34.9
935	67.8	65.0	60.1
936	68.2	65.7	69.7
937	68.6	66.0	70.7
938	68.8	66.7	71.7
939	68.8	66.8	46.0
940	68.5	66.4	12.6
941	68.0	64.8	-1.8
942	67.4	64.3	24.7
943	66.8	64.0	43.9
944	66.2	63.6	71.1
945	65.8	63.9	76.8
946	65.4	63.2	87.5
947	65.3	63.1	99.8
948	65.2	63.6	100.0
949	65.3	62.9	99.7
950	65.3	63.6	100.0
951	65.3	62.8	99.7
952	65.4	63.2	99.8
953	65.6	63.2	99.8
954	65.8	62.7	99.7
955	65.8	63.7	100.0
956	65.7	63.2	99.8
957	65.6	63.1	99.8
958	65.6	62.9	99.7
959	65.6	63.6	100.0
960	65.7	63.0	99.7
961	65.8	63.1	99.8
962	65.9	63.1	99.8
963	65.9	62.9	99.7
964	65.8	63.2	99.8

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
965	65.5	63.1	99.8
966	65.2	63.2	99.8
967	65.0	62.9	99.7
968	64.9	63.8	100.0
969	64.8	63.4	99.9
970	64.8	62.9	99.7
971	65.0	62.7	99.6
972	65.2	62.5	99.6
973	65.5	62.2	99.5
974	65.7	62.8	99.7
975	65.7	63.6	100.0
976	65.6	63.2	99.8
977	65.4	62.8	99.7
978	65.2	62.3	99.5
979	65.0	63.2	99.8
980	64.7	62.8	99.7
981	64.4	62.4	99.5
982	64.4	62.3	99.5
983	64.6	62.9	99.7
984	65.0	62.3	99.5
985	65.4	63.2	99.8
986	65.8	63.6	100.0
987	66.2	64.0	99.9
988	66.5	64.0	99.9
989	66.9	64.6	99.7
990	67.3	65.0	74.1
991	67.8	65.4	46.0
992	68.2	65.6	36.4
993	68.4	65.5	33.5
994	68.6	65.9	58.9
995	68.9	66.8	73.8
996	69.4	67.2	52.4
997	69.9	67.2	9.2

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
998	70.2	67.3	2.2
999	70.3	67.7	33.6
1000	70.2	67.0	-6.9
1001	70.1	66.8	-6.9
1002	70.3	67.3	26.3
1003	70.6	67.2	23.3
1004	70.9	67.7	50.2
1005	71.4	68.6	68.3
1006	72.1	69.5	90.2
1007	73.0	70.3	98.9
1008	74.0	72.0	98.8
1009	75.0	72.7	74.4
1010	75.7	73.1	49.4
1011	76.1	72.8	9.8
012	76.0	61.5	-8.3
1013	75.9	61.4	73.5
014	76.1	62.9	99.7
1015	76.4	62.9	48.8
016	76.9	62.6	2.3
1017	77.3	62.9	-5.2
1018	77.4	62.4	-5.6
019	77.4	62.7	47.5
1020	77.3	62.3	-6.6
021	77.2	62.5	-9.1
022	77.1	61.7	-9.6
023	77.1	62.5	-9.9
024	77.0	61.8	-9.6
.025	77.0	62.0	-10.0
.026	76.9	62.0	-9.7
1027	77.1	62.3	-10.6
028	77.2	62.2	-10.3
029	77.3	62.8	-10.3
.030	77.3	62.0	-8.9

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1031	77.1	61.0	-6.2
1032	76.9	62.4	31.3
1033	76.8	62.7	45.3
1034	76.8	61.7	44.5
1035	76.9	62.8	61.0
1036	77.1	62.5	64.3
1037	77.3	62.8	64.4
1038	77.6	63.3	65.6
1039	77.7	63.2	64.5
1040	77.7	63.8	82.9
1041	77.7	63.3	86.0
1042	77.7	63.4	89.0
1043	77.6	63.2	81.4
1044	77.4	62.9	49.9
1045	76.9	62.3	20.1
1046	76.3	61.4	24.0
1047	75.6	61.5	36.2
1048	75.2	61.1	34.5
1049	75.0	60.6	30.3
1050	75.1	61.3	53.5
1051	75.2	60.6	61.6
1052	75.4	60.4	73.6
1053	75.6	61.5	84.6
1054	75.8	60.9	87.7
1055	76.0	62.0	80.0
1056	76.2	62.0	50.4
1057	76.3	61.3	38.6
1058	76.2	62.0	63.1
1059	76.1	61.0	5.0
1060	75.8	61.0	47.4
1061	75.5	61.0	49.8
1062	75.1	60.7	23.9
1063	74.9	60.5	44.6

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1064	74.8	60.6	65.2
1065	74.6	60.6	60.4
1066	74.5	60.5	61.5
1067	74.3	59.6	-1.6
1068	74.0	59.6	-9.4
1069	73.5	58.7	-9.4
1070	72.8	57.8	-8.7
1071	72.0	57.4	-7.7
1072	71.2	56.3	-6.8
1073	70.4	55.5	-3.6
1074	69.8	55.5	38.2
1075	69.3	55.6	48.1
1076	68.9	55.5	48.0
1077	68.4	55.1	59.3
1078	68.0	58.4	19.8
1079	67.9	65.1	-5.3
1080	68.3	65.0	88.9
1081	68.9	65.5	99.5
1082	69.5	66.4	99.3
1083	70.2	67.6	99.1
1084	70.9	68.5	99.0
1085	71.7	69.6	98.9
1086	72.6	70.2	98.9
1087	73.3	70.4	98.9
1088	74.0	71.7	48.3
1089	74.4	71.7	55.6
1090	74.7	71.6	59.8
1091	74.8	71.9	55.6
1092	74.7	72.1	29.6
1093	74.5	71.9	19.3
1094	74.3	71.4	7.9
1095	74.2	71.2	19.2
1096	74.0	71.3	43.0

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1097	73.9	71.2	59.7
1098	73.8	71.2	98.8
1099	73.8	71.3	98.8
1100	73.7	71.3	26.6
1101	73.3	70.6	-0.7
1102	72.7	69.5	-7.8
1103	71.8	68.6	-12.0
1104	70.9	67.4	-12.5
1105	69.9	66.4	-12.3
1106	69.2	65.4	-11.4
1107	68.6	64.9	23.2
1108	68.4	65.5	84.2
1109	68.4	65.8	99.4
1110	68.7	66.6	99.3
111	69.2	67.3	99.2
1112	69.7	68.2	99.0
1113	70.4	67.8	99.1
1114	71.2	69.5	98.9
1115	72.1	69.4	98.9
1116	72.8	70.2	98.9
1117	73.1	71.1	98.8
1118	73.3	70.9	19.2
1119	73.2	69.9	-11.4
1120	72.9	68.8	-11.2
1121	72.2	68.6	-11.2
1122	71.2	67.6	-11.3
1123	70.1	66.6	-11.1
1124	69.0	65.7	-11.0
1125	67.9	64.5	-10.1
1126	66.8	63.8	-6.5
1127	66.0	62.7	25.8
1128	65.3	62.3	46.1
1129	64.6	62.0	46.9

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1130	64.2	61.6	46.7
1131	64.0	61.5	70.0
1132	64.0	61.5	70.0
1133	64.0	60.9	67.6
1134	63.8	61.0	67.6
1135	63.7	60.5	74.7
1136	63.5	61.0	13.0
1137	63.2	60.2	-2.2
1138	62.9	59.5	-5.8
1139	62.6	59.6	24.8
1140	62.6	59.1	73.8
1141	62.8	60.4	99.0
1142	63.1	60.2	98.9
1143	63.7	61.9	99.4
1144	64.2	62.9	99.7
1145	64.8	62.3	99.5
1146	65.2	62.3	99.5
1147	65.6	63.7	100.0
1148	65.9	64.1	99.9
1149	66.2	63.6	100.0
1150	66.4	64.1	99.9
1151	66.5	64.5	99.7
1152	66.6	63.6	100.0
1153	66.7	64.6	99.7
1154	67.0	64.1	98.3
1155	67.1	64.0	47.2
1156	66.9	63.5	78.4
1157	66.5	63.2	83.0
1158	66.0	63.2	31.7
1159	65.6	62.4	31.3
1160	65.2	62.1	21.5
1161	64.9	61.3	59.4
1162	64.8	61.5	77.1

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1163	65.0	61.8	87.6
1164	65.5	62.6	87.5
1165	66.2	63.7	81.4
1166	67.1	64.1	66.7
1167	68.0	65.4	63.2
1168	68.9	66.8	62.0
1169	69.7	67.2	43.9
1170	70.4	67.7	30.7
1171	70.8	68.0	23.4
1172	71.1	68.1	-5.3
1173	71.2	68.6	-5.8
1174	71.2	68.1	-5.8
1175	71.2	67.7	4.0
1176	71.2	68.1	23.4
1177	71.1	67.7	41.7
1178	71.0	68.1	49.2
1179	71.0	68.6	56.6
1180	71.2	69.3	56.6
1181	71.5	69.5	64.0
1182	71.9	69.9	68.2
1183	72.2	69.5	71.4
1184	72.6	70.5	71.3
1185	73.1	70.8	79.1
1186	86.9	70.9	83.3
1187	87.2	70.9	77.1
1188	87.5	70.4	73.5
1189	86.9	70.5	55.5
1190	86.6	70.1	54.4
1191	86.2	70.2	73.3
1192	86.5	70.2	77.9
1193	86.1	70.2	73.9
1194	86.3	70.4	76.5
1195	86.2	70.0	82.3

s         km/h         %         %           1196         85.5         70.3         82.8           1197         86.5         70.2         65.8           1198         86.0         69.6         48.6           1199         85.8         69.5         62.2           1200         85.6         69.7         70.4           1201         85.5         69.5         62.1           1202         85.3         69.2         67.4           1203         85.0         69.4         58.9           1204         85.0         69.1         57.7           1205         84.6         68.5         57.8           1206         84.3         68.3         57.6           1207         84.0         68.2         42.6           1208         83.5         68.1         70.1           1209         83.6         67.7         59.6           1210         83.6         67.9         39.0           1211         82.5         67.3         68.1           1212         82.7         67.6         79.1           1213         82.8         68.0         89.7 <td< th=""><th></th></td<>	
1197       86.5       70.2       65.8         1198       86.0       69.6       48.6         1199       85.8       69.5       62.2         1200       85.6       69.7       70.4         1201       85.5       69.5       62.1         1202       85.3       69.2       67.4         1203       85.0       69.4       58.9         1204       85.0       69.1       57.7         1205       84.6       68.5       57.8         1206       84.3       68.3       57.6         1207       84.0       68.2       42.6         1208       83.5       68.1       70.1         1209       83.6       67.7       59.6         1210       83.6       67.9       39.0         1211       82.5       67.3       68.1         1212       82.7       67.6       79.1         1213       82.8       68.0       89.7         1214       82.9       67.4       89.4         1215       83.1       67.4       93.1	
1198       86.0       69.6       48.6         1199       85.8       69.5       62.2         1200       85.6       69.7       70.4         1201       85.5       69.5       62.1         1202       85.3       69.2       67.4         1203       85.0       69.4       58.9         1204       85.0       69.1       57.7         1205       84.6       68.5       57.8         1206       84.3       68.3       57.6         1207       84.0       68.2       42.6         1208       83.5       68.1       70.1         1209       83.6       67.7       59.6         1210       83.6       67.9       39.0         1211       82.5       67.3       68.1         1212       82.7       67.6       79.1         1213       82.8       68.0       89.7         1214       82.9       67.4       89.4         1215       83.1       67.4       93.1	
1199       85.8       69.5       62.2         1200       85.6       69.7       70.4         1201       85.5       69.5       62.1         1202       85.3       69.2       67.4         1203       85.0       69.4       58.9         1204       85.0       69.1       57.7         1205       84.6       68.5       57.8         1206       84.3       68.3       57.6         1207       84.0       68.2       42.6         1208       83.5       68.1       70.1         1209       83.6       67.7       59.6         1210       83.6       67.9       39.0         1211       82.5       67.3       68.1         1212       82.7       67.6       79.1         1213       82.8       68.0       89.7         1214       82.9       67.4       89.4         1215       83.1       67.4       93.1	
1200       85.6       69.7       70.4         1201       85.5       69.5       62.1         1202       85.3       69.2       67.4         1203       85.0       69.4       58.9         1204       85.0       69.1       57.7         1205       84.6       68.5       57.8         1206       84.3       68.3       57.6         1207       84.0       68.2       42.6         1208       83.5       68.1       70.1         1209       83.6       67.7       59.6         1210       83.6       67.9       39.0         1211       82.5       67.3       68.1         1212       82.7       67.6       79.1         1213       82.8       68.0       89.7         1214       82.9       67.4       89.4         1215       83.1       67.4       93.1	
1201       85.5       69.5       62.1         1202       85.3       69.2       67.4         1203       85.0       69.4       58.9         1204       85.0       69.1       57.7         1205       84.6       68.5       57.8         1206       84.3       68.3       57.6         1207       84.0       68.2       42.6         1208       83.5       68.1       70.1         1209       83.6       67.7       59.6         1210       83.6       67.9       39.0         1211       82.5       67.3       68.1         1212       82.7       67.6       79.1         1213       82.8       68.0       89.7         1214       82.9       67.4       89.4         1215       83.1       67.4       93.1	
1202       85.3       69.2       67.4         1203       85.0       69.4       58.9         1204       85.0       69.1       57.7         1205       84.6       68.5       57.8         1206       84.3       68.3       57.6         1207       84.0       68.2       42.6         1208       83.5       68.1       70.1         1209       83.6       67.7       59.6         1210       83.6       67.9       39.0         1211       82.5       67.3       68.1         1212       82.7       67.6       79.1         1213       82.8       68.0       89.7         1214       82.9       67.4       89.4         1215       83.1       67.4       93.1	
1203       85.0       69.4       58.9         1204       85.0       69.1       57.7         1205       84.6       68.5       57.8         1206       84.3       68.3       57.6         1207       84.0       68.2       42.6         1208       83.5       68.1       70.1         1209       83.6       67.7       59.6         1210       83.6       67.9       39.0         1211       82.5       67.3       68.1         1212       82.7       67.6       79.1         1213       82.8       68.0       89.7         1214       82.9       67.4       89.4         1215       83.1       67.4       93.1	
1204       85.0       69.1       57.7         1205       84.6       68.5       57.8         1206       84.3       68.3       57.6         1207       84.0       68.2       42.6         1208       83.5       68.1       70.1         1209       83.6       67.7       59.6         1210       83.6       67.9       39.0         1211       82.5       67.3       68.1         1212       82.7       67.6       79.1         1213       82.8       68.0       89.7         1214       82.9       67.4       89.4         1215       83.1       67.4       93.1	
1205       84.6       68.5       57.8         1206       84.3       68.3       57.6         1207       84.0       68.2       42.6         1208       83.5       68.1       70.1         1209       83.6       67.7       59.6         1210       83.6       67.9       39.0         1211       82.5       67.3       68.1         1212       82.7       67.6       79.1         1213       82.8       68.0       89.7         1214       82.9       67.4       89.4         1215       83.1       67.4       93.1	
1206       84.3       68.3       57.6         1207       84.0       68.2       42.6         1208       83.5       68.1       70.1         1209       83.6       67.7       59.6         1210       83.6       67.9       39.0         1211       82.5       67.3       68.1         1212       82.7       67.6       79.1         1213       82.8       68.0       89.7         1214       82.9       67.4       89.4         1215       83.1       67.4       93.1	
1207       84.0       68.2       42.6         1208       83.5       68.1       70.1         1209       83.6       67.7       59.6         1210       83.6       67.9       39.0         1211       82.5       67.3       68.1         1212       82.7       67.6       79.1         1213       82.8       68.0       89.7         1214       82.9       67.4       89.4         1215       83.1       67.4       93.1	
1208       83.5       68.1       70.1         1209       83.6       67.7       59.6         1210       83.6       67.9       39.0         1211       82.5       67.3       68.1         1212       82.7       67.6       79.1         1213       82.8       68.0       89.7         1214       82.9       67.4       89.4         1215       83.1       67.4       93.1	
1209       83.6       67.7       59.6         1210       83.6       67.9       39.0         1211       82.5       67.3       68.1         1212       82.7       67.6       79.1         1213       82.8       68.0       89.7         1214       82.9       67.4       89.4         1215       83.1       67.4       93.1	
1210       83.6       67.9       39.0         1211       82.5       67.3       68.1         1212       82.7       67.6       79.1         1213       82.8       68.0       89.7         1214       82.9       67.4       89.4         1215       83.1       67.4       93.1	
1211       82.5       67.3       68.1         1212       82.7       67.6       79.1         1213       82.8       68.0       89.7         1214       82.9       67.4       89.4         1215       83.1       67.4       93.1	
1212       82.7       67.6       79.1         1213       82.8       68.0       89.7         1214       82.9       67.4       89.4         1215       83.1       67.4       93.1	
1213     82.8     68.0     89.7       1214     82.9     67.4     89.4       1215     83.1     67.4     93.1	
1214     82.9     67.4     89.4       1215     83.1     67.4     93.1	
1215 83.1 67.4 93.1	
1216 83 1 67 7 93 1	
1210 05.1 07.7 75.1	
1217 83.6 68.0 94.4	
1218 83.8 68.0 94.8	
1219 83.9 68.1 94.1	
1220 84.1 68.7 94.3	
1221 84.1 68.5 93.7	
1222 84.2 69.2 93.2	
1223 85.1 69.4 93.2	
1224 85.0 69.0 93.7	
1225 85.2 69.2 93.1	
1226 85.5 69.5 86.2	
1227 85.5 69.6 72.9	
1228 85.2 69.0 59.9	

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1229	84.6	68.6	8.5
1230	84.0	68.2	47.6
1231	83.6	68.3	74.4
1232	83.9	68.1	79.1
1233	83.9	68.0	67.2
1234	83.4	68.0	69.1
1235	83.7	68.1	71.3
1236	83.8	68.1	77.3
1237	84.2	68.5	78.2
1238	84.6	68.4	70.6
1239	84.5	68.7	64.0
1240	84.6	68.5	55.6
1241	85.2	69.3	49.6
1242	85.2	69.0	41.1
1243	85.4	69.5	40.6
1244	85.4	69.1	21.1
1245	86.3	69.4	24.9
1246	85.9	69.7	24.8
1247	86.2	69.3	-16.9
1248	86.2	69.5	-15.1
1249	86.1	69.5	-14.9
1250	86.1	69.4	-14.9
1251	86.8	69.7	-14.9
1252	86.8	69.7	-14.9
1253	86.9	70.0	-5.7
1254	87.0	70.8	2.6
1255	87.5	70.1	-14.0
1256	88.2	70.5	-14.8
1257	87.6	70.8	-16.1
1258	87.4	70.0	4.1
1259	87.6	70.9	7.1
1260	87.5	70.7	-0.3
1261	87.2	70.1	-15.6
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Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1262	87.0	70.0	-14.7
1263	87.0	70.2	-14.7
1264	87.1	70.0	4.9
265	87.1	70.4	5.9
266	86.8	70.3	6.1
267	87.0	70.1	-14.7
1268	86.8	70.1	-12.7
269	86.9	70.1	22.0
270	87.0	70.2	10.3
1271	86.9	70.3	10.0
1272	87.1	70.8	6.2
273	87.8	70.7	7.3
274	87.7	70.5	14.8
275	87.5	70.8	8.2
276	88.3	70.8	5.5
277	87.5	71.1	14.3
278	88.0	71.1	12.0
279	88.6	71.4	34.2
280	87.8	71.3	17.1
281	88.5	71.5	15.7
282	88.4	71.1	9.5
283	88.3	71.2	9.2
1284	87.6	70.7	4.3
285	87.5	70.5	7.8
286	87.5	70.5	5.9
1287	86.9	70.5	5.3
288	87.0	70.3	4.6
289	86.3	69.9	21.5
290	86.6	70.1	15.8
291	86.0	69.9	10.1
1292	86.2	69.5	9.4
1293	86.5	69.5	9.0
294	86.2	69.5	35.4

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1295	85.6	69.5	30.7
1296	86.1	69.5	25.9
1297	86.1	69.4	22.9
1298	85.4	69.4	24.4
1299	86.3	69.8	61.0
1300	86.7	70.4	56.0
1301	86.9	70.7	50.6
1302	86.7	70.0	16.2
1303	86.7	70.1	50.0
1304	87.7	70.1	31.4
1305	87.4	70.4	43.1
1306	87.7	71.0	38.4
1307	87.5	71.0	40.2
1308	88.1	71.4	49.7
1309	88.2	71.7	45.9
1310	88.4	71.9	45.9
1311	88.8	72.0	45.8
1312	89.1	72.3	46.8
1313	89.4	72.4	44.3
1314	89.6	72.5	44.4
1315	89.5	72.6	43.7
1316	90.1	73.0	46.1
1317	90.4	73.0	40.7
1318	90.5	73.5	49.5
1319	90.9	73.1	27.0
1320	91.1	73.2	15.0
1321	90.7	73.0	18.7
1322	90.5	72.9	8.4
1323	90.3	72.7	8.7
1324	90.1	72.8	21.6
1325	89.6	72.5	19.7
1326	89.5	72.6	22.1
1327	89.5	72.6	20.3

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1328	89.2	71.7	19.1
1329	88.4	71.5	17.1
1330	88.5	71.1	-1.4
1331	87.6	71.3	22.0
1332	87.7	71.0	40.3
1333	87.7	71.2	34.3
1334	87.8	70.9	16.1
1335	88.1	70.8	16.6
1336	87.3	70.7	18.5
1337	87.8	70.8	29.8
1338	87.6	71.0	19.5
1339	87.6	71.0	22.3
1340	87.8	71.4	35.8
1341	88.0	71.4	42.9
1342	87.8	71.5	31.0
1343	88.5	71.4	19.2
1344	88.3	71.1	9.3
1345	87.8	71.0	44.2
1346	87.5	71.0	55.3
1347	87.5	71.2	56.0
1348	87.5	71.0	60.1
1349	87.2	70.9	59.1
1350	87.3	71.0	56.8
1351	86.9	70.9	58.1
1352	86.5	70.0	78.4
1353	85.7	70.1	84.6
1354	85.7	70.0	66.6
1355	85.8	69.9	75.5
1356	85.4	69.5	49.6
1357	85.8	69.7	75.8
1358	85.7	69.6	77.6
1359	85.7	69.6	67.8
1360	86.1	69.6	56.7

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
361	85.6	69.5	54.2
362	85.5	69.5	59.6
1363	86.1	69.5	60.8
364	85.5	69.9	56.1
365	85.8	69.5	48.5
366	86.2	69.8	42.9
1367	86.2	69.9	41.4
1368	86.1	70.0	38.9
1369	86.1	69.9	32.9
1370	86.3	69.8	30.6
1371	86.0	70.0	30.0
1372	85.8	69.9	25.3
1373	86.0	69.5	18.6
1374	86.1	69.7	18.0
1375	85.9	69.3	10.6
1376	85.9	69.5	10.5
1377	85.8	69.2	8.2
1378	85.9	69.4	13.7
1379	86.1	69.7	7.8
1380	86.7	69.7	6.0
1381	86.4	69.7	6.0
1382	86.2	69.9	13.1
1383	86.8	70.1	22.3
1384	87.4	70.9	10.5
1385	87.3	70.2	9.8
1386	87.3	70.5	8.8
1387	87.5	70.3	8.7
1388	87.4	71.1	9.1
1389	87.0	70.8	28.2
1390	86.6	70.8	22.0
1391	87.0	70.1	23.2
1392	86.6	70.0	19.0
1393	86.5	70.8	38.4

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1394	87.0	70.2	41.6
1395	87.0	70.4	47.3
1396	87.4	70.7	55.4
1397	87.5	71.0	58.7
1398	87.9	71.4	37.9
1399	87.8	71.2	38.3
1400	87.8	71.4	58.7
1401	88.0	71.3	51.3
1402	88.1	71.4	71.1
1403	87.8	71.2	51.0
1404	87.5	71.5	56.6
1405	87.6	71.1	60.6
1406	88.0	71.2	75.4
1407	87.7	71.4	69.4
1408	88.6	71.5	69.9
1409	88.3	71.6	59.6
1410	88.4	71.7	54.8
1411	87.7	71.5	53.6
1412	88.0	71.3	53.5
1413	88.0	71.4	52.9
1414	88.1	71.2	54.1
1415	87.6	71.3	53.2
1416	87.6	71.2	52.2
1417	88.3	71.3	52.3
1418	87.9	71.1	48.0
1419	88.2	71.0	41.5
1420	87.6	71.1	32.2
1421	87.7	70.9	22.0
1422	87.5	70.9	23.3
1423	87.6	71.0	38.8
1424	87.6	71.1	40.7
1425	88.0	71.1	30.6
1426	87.9	71.3	62.6

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1427	88.4	71.6	55.9
1428	88.4	72.1	43.4
1429	89.2	72.1	37.4
1430	89.1	72.0	35.7
1431	88.6	72.4	34.4
1432	88.8	72.4	31.5
1433	89.2	72.5	31.7
1434	88.9	72.5	29.9
1435	89.3	72.4	29.4
1436	88.8	72.4	28.7
1437	88.9	71.5	14.7
1438	88.6	71.8	17.2
1439	88.5	71.5	6.1
1440	88.0	71.1	9.9
1441	88.0	71.0	4.8
1442	87.5	70.8	11.1
1443	87.9	70.6	6.9
1444	87.6	71.0	7.0
1445	87.3	70.5	9.2
1446	87.2	70.7	21.7
1447	86.9	70.5	22.4
1448	87.0	70.9	31.6
1449	87.4	71.0	28.9
1450	87.2	70.1	21.7
1451	86.5	70.5	18.0
1452	86.8	70.0	16.7
1453	87.0	70.2	15.7
1454	86.8	70.0	15.7
1455	86.2	69.9	15.7
1456	85.9	69.6	7.5
1457	85.9	69.5	7.1
1458	85.8	69.4	16.5
1459	86.0	69.8	50.7

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1460	86.4	70.1	60.2
1461	86.8	70.6	44.0
1462	87.1	70.5	35.3
1463	86.9	70.6	17.1
1464	86.8	70.3	13.5
1465	86.3	70.3	12.8
1466	86.6	70.0	14.8
1467	86.3	70.0	15.9
1468	86.0	69.9	22.0
1469	86.7	70.6	38.4
1470	86.8	70.0	38.8
1471	86.7	69.9	31.9
1472	86.7	71.0	40.8
1473	87.4	70.9	39.0
1474	87.2	71.0	30.1
1475	87.5	71.1	29.3
1476	87.2	70.8	28.4
1477	87.5	71.0	36.3
1478	87.3	71.0	30.5
1479	88.1	70.9	26.7
1480	87.8	70.5	4.7
1481	86.9	70.3	-14.4
1482	86.7	70.6	36.2
1483	87.3	70.9	32.5
1484	87.4	70.3	3.1
1485	86.8	70.1	-14.6
1486	86.4	70.0	-13.0
1487	86.0	69.8	-0.9
1488	86.1	69.5	0.6
1489	86.5	69.4	-0.6
1490	86.0	69.4	-14.6
1491	86.4	68.8	-14.5
1492	85.2	69.0	-14.0

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1493	85.8	68.6	-9.2
1494	84.9	69.1	9.5
1495	84.8	68.3	6.0
1496	85.1	68.4	27.3
1497	85.5	69.1	59.9
1498	85.9	69.1	7.3
1499	85.8	69.5	21.7
1500	86.3	69.5	38.9
1501	86.3	70.0	26.2
1502	86.3	69.7	25.5
1503	86.4	69.7	26.0
1504	86.2	69.6	39.1
1505	86.2	70.0	52.3
1506	86.5	69.9	31.0
1507	86.2	69.9	27.0
1508	86.3	70.0	29.8
1509	86.6	70.0	23.1
1510	86.7	69.5	16.0
1511	86.3	69.6	31.5
1512	85.9	69.5	25.9
1513	85.9	69.5	40.2
1514	86.1	69.5	28.4
1515	86.0	69.5	38.9
1516	86.4	69.7	35.3
1517	86.3	69.5	30.3
1518	86.1	69.6	19.0
1519	85.4	69.4	3.0
1520	85.4	68.8	-1.7
1521	84.9	68.9	2.4
1522	84.7	68.2	-12.1
1523	84.5	68.0	-13.7
1524	83.8	67.9	5.3
1525	83.8	67.9	2.1

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1526	83.9	68.0	-11.1
1527	83.9	67.6	-14.0
1528	83.6	67.6	-7.9
1529	83.6	67.4	-0.6
1530	83.7	68.0	-1.0
1531	84.3	67.9	3.8
1532	84.5	68.1	-13.4
1533	84.8	68.1	-14.7
1534	84.6	68.4	-14.7
1535	85.0	68.4	-3.3
1536	85.6	69.1	13.9
537	86.2	69.3	-4.6
1538	86.8	69.7	-7.9
539	87.5	70.0	-15.2
540	87.1	70.1	-14.8
541	86.3	70.0	-14.8
542	86.7	70.1	0.5
1543	86.5	69.9	9.2
544	86.6	70.0	11.2
545	86.1	69.7	26.8
546	86.1	69.6	11.7
547	85.9	69.5	6.4
1548	86.0	69.4	5.0
1549	85.8	68.5	-12.8
.550	85.1	68.4	-14.2
1551	84.4	68.2	1.1
552	84.6	68.2	-2.6
.553	84.7	68.1	4.5
554	84.9	68.2	3.7
555	85.1	68.4	3.3
1556	84.9	68.4	16.8
1557	85.6	69.0	29.3
558	85.5	69.4	12.5

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1559	85.8	69.1	12.2
1560	86.2	69.3	12.7
1561	86.5	69.6	13.6
1562	86.6	70.2	21.9
1563	87.1	69.9	20.9
1564	87.6	70.1	19.2
1565	87.7	70.5	15.9
1566	87.9	70.9	16.7
1567	87.5	70.9	18.1
1568	87.5	70.9	40.6
1569	87.8	70.9	59.7
1570	87.5	71.2	66.8
1571	87.4	71.2	58.8
1572	87.2	71.0	64.7
1573	87.2	70.5	63.6
1574	86.9	70.9	83.2
1575	87.6	70.6	82.2
1576	86.9	70.4	80.5
1577	87.1	70.3	78.7
1578	87.2	71.0	67.9
1579	86.6	70.7	57.7
1580	86.7	70.5	60.6
1581	86.8	70.1	72.7
1582	86.7	70.3	73.6
1583	86.4	70.2	74.1
1584	86.7	70.0	84.6
1585	86.5	70.0	76.1
1586	86.7	70.5	76.9
1587	86.7	70.0	84.6
1588	86.5	70.2	77.5
1589	87.0	70.8	67.9
1590	86.8	69.9	47.3
1591	86.3	69.9	43.1

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1592	86.3	69.9	38.3
1593	86.2	69.4	38.2
1594	85.6	69.5	39.2
1595	86.1	69.7	67.9
1596	86.4	70.1	60.5
1597	86.9	70.0	32.9
1598	87.0	70.0	20.0
1599	86.8	70.0	34.4
1600	86.6	69.9	23.9
1601	86.6	70.0	15.7
1602	87.2	70.3	41.0
1603	87.0	70.7	26.3
1604	86.9	70.0	14.0
1605	86.8	70.1	21.2
1606	87.2	71.0	19.6
1607	87.5	70.5	34.3
1608	87.6	70.3	27.0
1609	87.7	71.0	25.6
1610	87.7	70.8	26.3
1611	87.8	71.0	26.1
1612	88.0	71.2	38.0
1613	88.2	71.3	31.6
1614	88.2	71.4	30.6
1615	88.3	71.6	29.6
1616	88.7	71.5	28.8
1617	88.8	71.6	27.8
1618	88.9	72.0	20.3
1619	89.0	71.4	19.6
1620	89.1	71.7	19.7
1621	88.4	71.7	18.7
1622	89.1	71.5	17.7
1623	89.1	71.6	8.7
1624	88.5	71.6	1.4

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1625	88.6	71.6	5.9
1626	88.6	71.3	8.1
1627	89.0	71.8	45.8
1628	89.0	71.4	31.5
1629	89.2	71.6	22.3
1630	88.8	72.1	21.7
1631	89.0	72.5	21.9
1632	89.0	72.0	22.2
1633	88.8	72.2	31.0
1634	89.2	72.0	31.3
1635	89.7	72.3	31.7
1636	89.5	72.0	22.8
1637	89.4	72.4	12.6
1638	89.3	72.0	15.2
1639	89.4	71.8	32.6
1640	89.3	72.2	23.1
1641	89.3	71.6	19.4
1642	88.7	71.6	10.8
1643	89.2	71.5	10.2
1644	88.8	71.4	-14.6
1645	88.5	71.0	-14.0
1646	88.3	70.9	-12.3
1647	88.2	71.1	12.4
1648	87.7	70.7	5.3
1649	87.6	71.1	13.1
1650	87.5	70.9	29.6
1651	88.2	70.7	28.9
1652	87.9	71.0	27.1
1653	88.0	71.2	27.3
1654	88.4	71.0	20.6
1655	88.1	71.2	13.9
1656	88.1	70.9	13.4
1657	88.3	71.3	26.1

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1658	88.3	71.0	23.7
1659	87.9	71.4	32.1
1660	88.2	71.6	33.5
1661	88.7	71.7	34.1
1662	89.0	71.6	17.0
1663	88.6	71.6	2.5
1664	88.7	71.5	5.9
1665	88.5	71.3	14.9
1666	88.8	71.5	17.2
1667	88.9	71.2	-13.8
1668	88.9	71.4	-14.2
1669	88.1	71.4	8.8
1670	88.9	71.3	8.8
1671	88.1	71.1	18.0
1672	88.7	71.5	13.0
1673	88.3	71.1	3.7
1674	88.2	71.0	3.1
1675	88.0	71.0	4.7
1676	88.0	70.8	4.1
1677	87.7	70.8	6.7
1678	87.4	70.8	12.8
1679	87.7	70.9	11.9
1680	87.6	70.8	12.4
1681	87.5	70.5	12.4
1682	87.7	70.7	12.0
1683	87.7	70.6	11.8
1684	87.5	70.3	12.4
1685	87.2	70.0	12.4
1686	87.1	70.0	9.1
1687	87.0	70.3	-13.6
1688	87.0	70.3	20.4
1689	87.0	70.2	4.4
1690	86.5	69.9	3.1

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1691	86.8	70.0	26.3
1692	86.8	70.1	20.1
1693	87.2	69.9	35.0
1694	87.4	71.0	22.1
1695	87.7	70.7	12.2
1696	87.6	70.4	11.0
1697	87.4	70.4	8.2
1698	86.9	70.7	6.7
1699	87.4	70.4	5.1
1700	87.2	70.4	5.1
1701	87.4	70.4	9.0
1702	87.2	70.4	5.7
1703	86.7	70.3	8.5
1704	86.4	70.0	6.0
1705	86.8	70.0	5.5
1706	87.0	70.0	14.2
1707	87.0	70.0	6.2
1708	86.2	70.0	10.3
1709	87.0	70.0	13.8
1710	86.9	70.0	13.9
1711	87.3	70.4	18.9
1712	87.1	70.0	13.1
1713	87.1	70.2	5.4
1714	87.1	70.3	2.9
1715	87.1	70.4	7.1
1716	87.1	70.1	12.0
1717	86.5	70.1	4.9
1718	86.7	70.0	22.7
1719	86.9	70.1	22.0
1720	87.0	70.5	17.4
1721	87.2	70.5	16.6
1722	87.3	70.0	28.6
1723	87.5	70.6	22.4

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1724	87.8	70.3	20.0
1725	87.7	70.5	18.6
1726	88.1	70.6	11.9
1727	87.8	70.6	11.6
1728	87.8	70.8	10.6
1729	87.6	71.0	16.0
1730	88.3	71.0	17.0
1731	88.0	71.0	16.1
1732	88.1	70.9	11.4
1733	87.6	71.0	11.3
1734	88.0	71.2	11.2
1735	87.9	71.2	25.6
1736	88.5	71.1	14.6
1737	88.5	71.1	10.4
1738	88.2	70.8	-13.4
1739	87.9	71.0	-12.7
1740	87.6	71.0	4.8
1741	87.3	70.3	-13.6
1742	87.2	70.2	-32.9
1743	86.4	69.7	-31.9
1744	86.2	69.5	-13.0
1745	86.1	69.5	-13.4
1746	85.7	69.0	-13.4
1747	85.4	69.2	14.3
1748	85.7	68.5	4.4
1749	85.3	68.8	-4.9
1750	85.2	68.7	20.9
1751	85.1	69.1	9.2
1752	85.2	68.7	8.2
1753	85.2	68.5	15.3
1754	85.5	69.2	38.0
1755	85.6	69.0	15.4
1756	86.0	69.5	11.8

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1757	85.6	69.1	8.1
1758	85.6	69.1	5.5
1759	85.5	69.6	4.1
1760	85.6	69.0	4.9
1761	85.3	68.8	10.1
1762	85.6	69.3	7.5
1763	85.6	68.5	7.0
1764	85.3	69.0	6.7
1765	85.1	69.0	6.6
1766	85.0	68.4	17.3
1767	84.9	68.9	11.4
1768	85.0	68.5	47.4
1769	85.2	68.5	28.8
1770	85.3	69.5	24.3
1771	85.6	68.7	25.5
1772	85.6	69.2	35.5
1773	85.7	69.2	29.3
1774	85.8	69.6	33.8
1775	86.2	69.6	18.7
1776	86.2	69.5	9.8
1777	86.1	69.5	23.9
1778	86.2	69.7	48.2
1779	86.2	70.0	37.2
1780	86.8	70.0	29.1
1781	72.3	62.5	25.0
1782	57.9	55.0	20.0
1783	43.4	47.5	15.0
1784	28.9	40.0	10.0
1785	14.5	32.5	5.0
1786	0.4	28.4	1.3
1787	0.4	27.8	0.8
1788	0.3	28.7	0.7
1789	0.4	27.8	1.8

Status: This is the original version (as it was originally made). This item of legislation is currently only available in its original format.

Time	Vehicle speed	Related engine speed	Related engine torque
S	km/h	%	%
1790	0.4	28.4	0.4
1791	0.4	28.3	1.2
1792	0.4	27.8	0.8
1793	0.4	27.9	0.0
1794	0.4	28.4	1.3
1795	0.4	28.8	0.8
1796	0.4	27.7	0.8
1797	0.5	28.4	0.4
1798	0.4	27.8	1.8
1799	0.4	28.2	0.2
1800	0.4	27.9	0.0

## **EXPLANATORY NOTE**

(This note is not part of the Regulations)

These Regulations prescribe type approval requirements for reduced pollution devices, that is to say devices fitted to the engines of vehicles so as to adapt them to fulfil reduced pollution requirements prescribed under the Vehicle Excise Duty (Reduced Pollution) Regulations 1998. By virtue of amendments made by Schedule 1 to the Finance Act 1998, lower rates of vehicle excise duty apply to vehicles within particular classes in Schedule 1 to the Vehicle Excise and Registration Act 1994, if they meet the reduced pollution requirements.

Regulation 3 and the Schedule specify type approval and marking requirements. Regulation 4 specifies provisions of the Motor Vehicles (Type Approval for Goods Vehicles) Regulations 1982 which are to apply with modifications for the type approval of reduced pollution devices under these Regulations.