PRESENTATION OF



INTERNATIONAL ORGANIZATION OF MOTOR VEHICLE MANUFACTURERS

Additional Sound Emission Provisions

Method B: Analysis Database with 7dB Slope and 4 dB Margin



INTERNATIONAL ORGANIZATION OF MOTOR VEHICLE MANUFACTURERS

Objective:

- Investigate the consequences, when in ASEP method 3, the maximum slope is extended to 7dB/1000 rpm and a general margin of 4 dB is applied.
- How would this affect the vehicles in the database.
- The requested fixed slope of 7dB/1000rpm was not used, because this is then no longer the spirit of ASEPmethod 3.

Page 2 NOV. 2008



INTERNATIONAL ORGANIZATION OF MOTOR VEHICLE MANUFACTURERS

Results for 2nd Gear

Datei	PMR	L_urban	T/M-Type	Slope	FAIL?
200-11	220	79,5	AT	6,0	8,4
1-49	112	71,8	AT	6,0	7,2
1-04	211	76,4	AT	6,0	6,2
1-03	246	72,8	MT	6,0	6,0
200-13	214	77,77	AT	6,0	5,8
3-04	65	72,7	MT	5,3	5,6
1-48	107	70,3	AT	6,0	5,5
1-01	96	71,9	AT	6,0	5,0
1-33	112	71,5	AT	5,4	4,2
200-09	166	74,3	MT	5,7	4,0
1-39	46	69,5	MT	6,0	3,9
1-40	56	68,9	AT	6,0	3,1
2-03	99	70,4	MT	6,0	2,9
200-15	153	74,5	AT	4,3	2,9
200-03	117	71,7	MT	4,3	2,6
100-22	132	71,5	MT	5,1	2,5
1-32	116	72,5	AT	5,4	2,3
1-26	70	67,2	MT	6,0	2,0

Results for 3rd Gear

Datei	PMR	L_urban	T/M-Type	Slope	FAIL?
200-11	220	79,5	AT	7,0	8,1
200-13	214	77,77	AT	7,0	5,4
2-03	99	70,4	MT	7,0	3,4
3-04	65	72,7	MT	7,0	2,5
200-10	188	72,5	AT	6,5	2,2
1-38	122	68,5	MT	4,9	2,2
107-06	62	73,5	MT	4,0	2,1
1-01	96	71,9	AT	6,0	2,1

Maximum Slope 7dB/1000 rpm and Margin 3dB

Maximum Slope 6dB/1000 rpm and Margin 3dB

FAIL TEST (Value > 3,0)

CRITICAL (2,0 < Value < 3,0)

In total 13 vehicles in the database fail the original values and 8 vehicles are less then 1 dB from the borderline.



INTERNATIONAL ORGANIZATION OF MOTOR VEHICLE MANUFACTURERS

Results for 2nd Gear

Datei	PMR	L_urban	T/M-Type	Slope	FAIL?
200-11	220	79,5	AT	6,0	8,4
1-49	112	71,8	AT	6,0	7,2
1-04	211	76,4	AT	6,0	6,2
1-03	246	72,8	MT	6,0	6,0
200-13	214	77,77	AT	6,0	5,8
3-04	65	72,7	MT	5,3	5,6
1-48	107	70,3	AT	6,0	5,5
1-01	96	71,9	AT	6,0	5,0
1-33	112	71,5	AT	5,4	4,2
200-09	166	74,3	MT	5,7	4,0
1-39	46	69,5	MT	6,0	3,9
1-40	56	68,9	AT	6,0	3,1
2-03	99	70,4	MT	6,0	2,9
200-15	153	74,5	AT	4,3	2,9
200-03	117	71,7	MT	4,3	2,6
100-22	132	71,5	MT	5,1	2,5
1-32	116	72,5	AT	5,4	2,3
1-26	70	67,2	MT	6,0	2.0

Results for 3rd Gear

Datei	PMR	L_urban	T/M-Type	Slope	FAIL?
200-11	220	79,5	AT	7,0	8,1
200-13	214	77,77	AT	7,0	5,4
2-03	99	70,4	MT	7,0	3,4
3-04	65	72,7	MT	7,0	2,5
200-10	188	72,5	AT	6,5	2,2
1-38	122	68,5	MT	4,9	2,2
107-06	62	73,5	MT	4,0	2,1
1-01	96	71,9	AT	6,0	2,1

Maximum Slope 7dB/1000 rpm and Margin 4dB

Maximum Slope 6dB/1000 rpm and Marg n 4dB

FAIL TEST (Value > 4,0)

CRITICAL (3,0 < Value < 4,0)

A margin of 4 dB would still make 10 vehicles fail the test and 3 vehicles would be close to the borderline.



🗪 INTERNATIONAL ORGANIZATION OF MOTOR VEHICLE MANUFACTURERS

Results for 2nd Gear

Datei	PMR	L_urban	T/M-Type	Slope	FAIL?
200-11	220	79,5	AT	7,0	5,6
1-49	112	71,8	AT	7,0	5,8
1-04	211	76,4	AT	7,0	4,4
1-03	246	72,8	MT	7,0	4,7
200-13	214	77,77	AT	7,0	3,8
3-04	65	72,7	MT	5,3	5,6
1-48	107	70,3	AT	6,9	3,5
1-01	96	71,9	AT	7,0	3,3
1-33	112	71,5	AT	5,4	4,2
200-09	166	74,3	MT	5,7	4,0
1-39	46	69,5	MT	6,7	3,4
1-40	56	68,9	AT	7,0	1,1
2-03	99	70,4	MT	7,0	2,3
200-15	153	74,5	AT	4,3	2,9
200-03	117	71,7	MT	4,3	2,6
100-22	132	71,5	MT	5,1	2,5
1-32	116	72,5	AT	5,4	2,3
1-26	70	67,2	MT	7,0	1,0

Extended Slope 7 dB/1000 rpm only affects GEAR 2 Results

Results for 3rd Gear

Datei	PMR	L_urban	T/M-Type	Slope	FAIL?
200-11	220	79,5	AT	7,0	8,1
200-13	214	77,77	AT	7,0	5,4
2-03	99	70,4	MT	7,0	3,4
3-04	65	72,7	MT	7,0	2,5
200-10	188	72,5	AT	6,5	2,2
1-38	122	68,5	MT	4,9	2,2
107-06	62	73,5	MT	4,0	2,1
1-01	96	71,9	AT	6,0	2,1

No Change for GEAR 3

FAIL TEST (Value > 4,0)

CRITICAL (3,0 < Value < 4,0)

The margin of 4 dB AND the slope of 7dB/1000rpm would still make 7 vehicles fail the test and 5 vehicles would be close to the borderline.