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(40th GRB, 23-24 September 2004,

agenda item 1.1.)

ISO/TC22/SC22/WG16

Improved noise measurement procedures
for stationary and accelerating motorcycles

Status report

UN/ECE GRB
23-24 September 2004



Joint ISO/TC43/SC1/WG42 – ISO/TC22/SC22/WG16 activities

ISO 5130
1982

Measurement of
noise emitted by
stationary road
vehicles -- Survey
method

ISO 362
1998

Measurement of
noise emitted by
accelerating road
vehicles --
Engineering method



ISO 362 - fundamental principles for passenger cars and motorcycles

- Simulation of partial throttle acceleration noise through combination of test at WOT acceleration and at constant speed ($a=0$)
- Prescribed WOT acceleration (expressed as function of PMR) to be achieved through interpolation of gears



ISO 362 – motorcycle database

Data measured in Europe

1994 (Paris, F and Pisa, I)

1994 (Amsterdam, NL and Frankfurt, D)

1999 (Pisa, I; Mandeure, F and Munich, D)

Technische Fachhochschule Biel in Switzerland (Biel, CH)

Technical University of Darmstadt (Darmstadt, D)

2004 (Pisa, I)

Data measured in Japan

1992 (Tokyo, J)

1997 (Tokyo, J)

2000 (Tokyo, J (including highway))

2002/3 (Tsuchiura and Tsukuba, J)

Data measured in China

TMTC (Ji Nan, China)

Data measured in the USA

1999 (Birmingham (AL), USA)

3 world regions

1992-2004

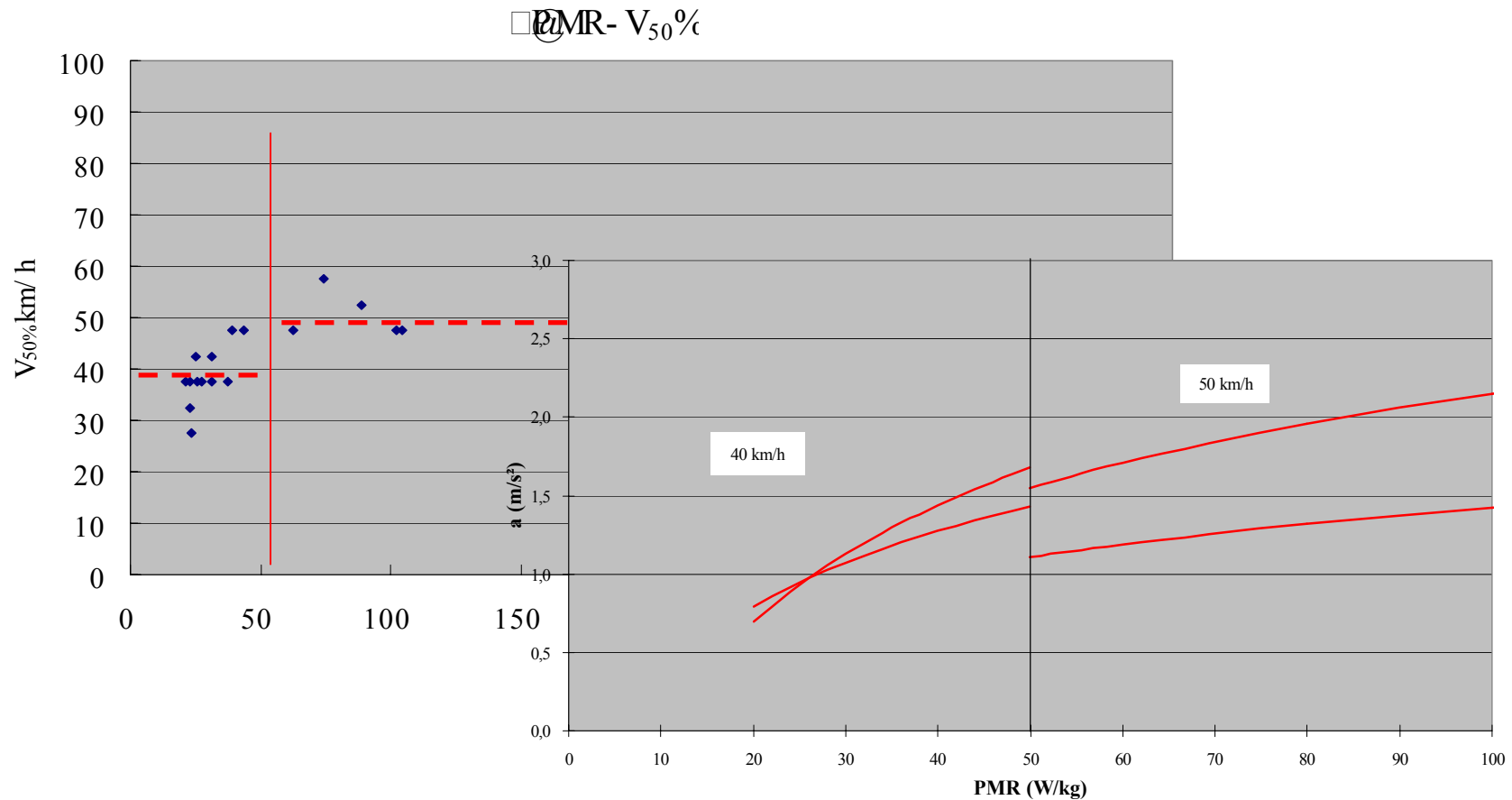
50-1440 cc

1600+ driving sequences



Motorcycle specific provisions

- Dedicated test speeds and corresponding acceleration curves





Next steps

- Circulation of revised ISO/CD 362 reflecting latest decisions within ISO/TC22/SC22/WG16 for final confirmation
- Presentation of latest modifications for review/adoption at ISO/TC43/SC1/WG42 on 25-27 October 2004
- ISO/TC22/SC22/WG16 available to support GRB in revision of ECE R41