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Laboratory alignment for rolling resistance measurement 滚阻机比对试验

Alignment of candidate laboratories
according to EU(No)1235/2011
依据欧盟法规1235/2011进行比对

Purpose

Labelling of tyres with respect to fuel efficiency
according to European Regulation EC (No) 1222/2009

TÜV SÜD service

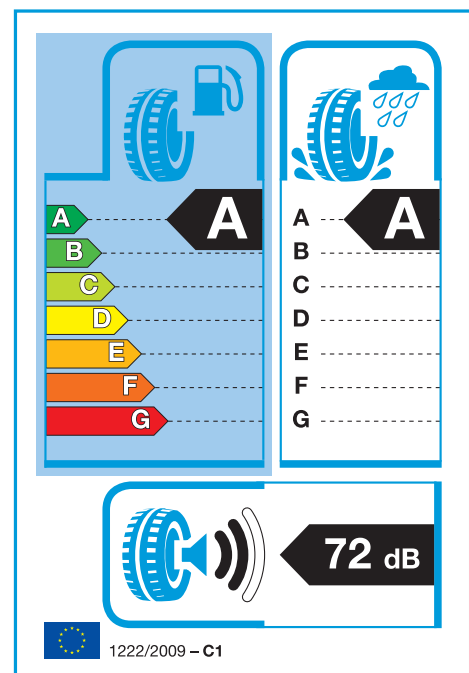
- Laboratory alignment procedure for implementation of Regulation EC (No) 1222/2009
- Performance of the laboratory alignment necessary for the measurement of tyre rolling resistance

目的

根据欧盟法规EC 1222/2009的要求在轮胎标签上注明能耗等级

TÜV南德意志集团提供的服务：

- 严格遵照欧盟法规EC 1222/2009的要求进行的滚阻机比对试验
- 轮胎滚动阻力测试



Member of the reference network

TÜV SÜD is a member of the European Commission expert group on laboratory alignment for the measurement of tyre rolling resistance and part of the European network of reference laboratories.

Alignment service

The measured rolling resistance coefficient (RRC) in a reference laboratory must be aligned to the assigned values of the network of reference laboratories. The RRC measurement in a candidate laboratory must be aligned through one reference laboratory of the network of the candidate laboratory's choice.

Alignment procedure

The reference laboratory calculates the linear regression function of the candidate laboratory as follows:

$$RRC_{m,l} = A2_c \times RRC_{m,c} + B2_c$$

where:

- $RRC_{m,l}$ is the measured value of the rolling resistance coefficient by the reference laboratory (l) (including temperature and drum diameter corrections)
- $RRC_{m,c}$ is the measured value of the rolling resistance coefficient by the candidate laboratory (c) (including temperature and drum diameter corrections)

The aligned RRC of tyres tested by the candidate laboratory is calculated as follows:

$$RRC = (A1_l \times A2_c) \times RRC_{m,c} + (A1_l \times B2_c + B1_l)$$

标准滚阻机比对委员会成员

TÜV南德意志集团是欧洲滚阻法规专家委员会常任委员，也是欧洲滚阻试验机比对标准实验室网络的成员。

比对服务

标准滚阻试验机互相对比获得的参考值(RRC)必须与标准滚阻试验机网络的指定值一致。客户滚阻试验机必须于网络中一台标准试验机进行比对。

比对流程

标准试验机计算客户滚阻机的线性回归函数如下:

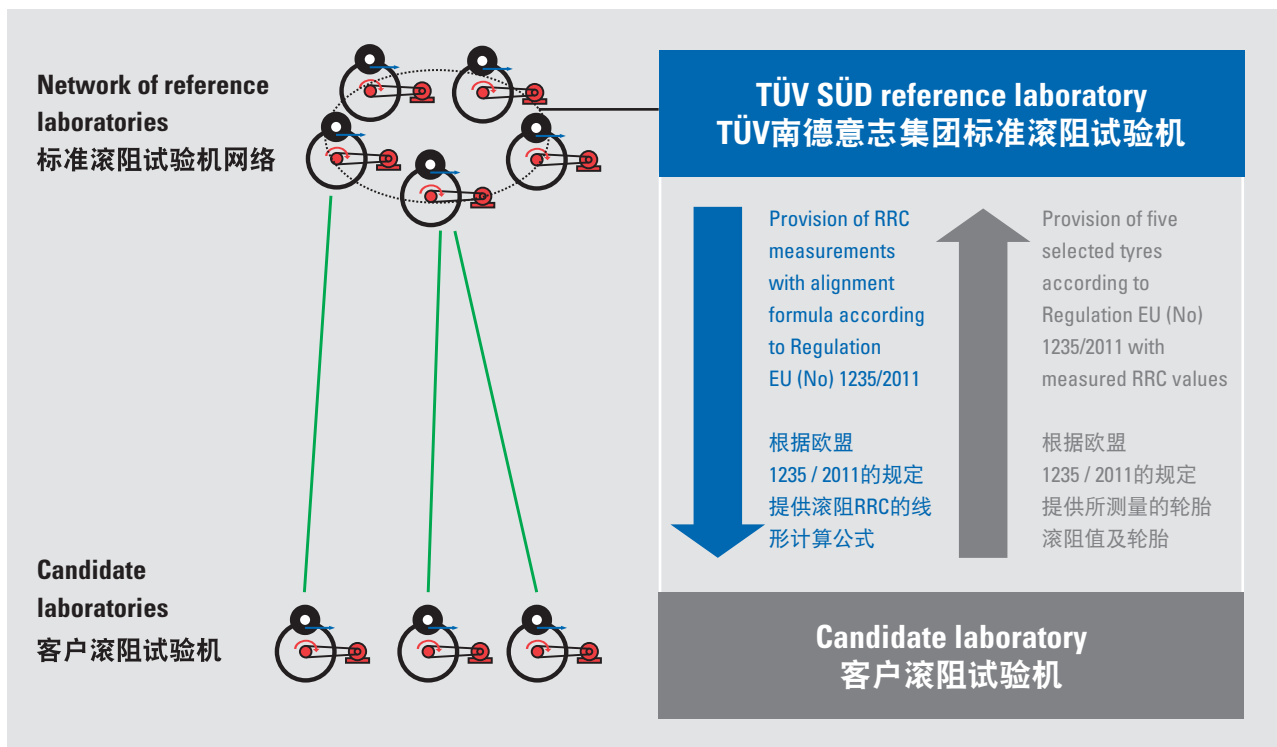
$$RRC_{m,l} = A2_c \times RRC_{m,c} + B2_c$$

注明:

- $RRC_{m,l}$ 是标准滚阻试验机的滚动阻力测量值(包括温度和转鼓直径修正)
- $RRC_{m,c}$ 是其他滚阻试验机的滚动阻力测量值(包括温度和转鼓直径修正)

对比客户滚阻试验机的滚动阻力测量值RRC是:

$$RRC = (A1_l \times A2_c) \times RRC_{m,c} + (A1_l \times B2_c + B1_l)$$





Your benefits

- Aligned test bench as required by EC (No) 1222/2009
- Service performed by independent test laboratory
- Long experience in tyre testing
- Reliable partner of the tyre and vehicle industry (incl. OEMs)

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TÜV SÜD is a premium quality, safety and sustainability solutions provider that specialises in testing, inspection, auditing, certification, training and knowledge services. Represented in over 800 locations worldwide, we hold accreditations in Europe, the Americas, the Middle East and Asia. By delivering objective solutions to our customers, we add tangible value to businesses, consumers and the environment.

您的收益

- 根据欧盟法规EC 1222/2009 完成对标测试
- 由独立的第三方认证机构TÜV南德意志集团实验室提供服务
- TÜV南德意志集团在轮胎测试方面的长期经验
- 一个轮胎和汽车产业 (OEM) 方面的可靠合作伙伴

权威认证, 创享价值

TÜV南德意志集团是一家优质、安全和可持续性解决方案提供商, 专门从事测试、检验、审核、认证、培训和知识服务。我们在世界各地有800多个分支机构, 并在欧洲、美洲、中东和亚洲持有认证资质。通过为客户提供客观的解决方案, 我们可以为企业、客户和环境创造有形价值。

* Some of the services listed are provided due to local regulations only and may not be available in other regions. Please contact us for further details.
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