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Compulsory Product Certification Implementation Rules -

Motor Vehicle Brake Hose

强制性产品认证实施规则

机动车制动软管

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Table of Contents

0 Introduction	4
1 Application scope	4
2 Terms and definitions	4
3 Standards for certification.....	4
4 Certification modes	5
5 Classification of certification units	5
6 Certification entrusting	6
7 Certification implementation	6
8 Supervision after certification	10
9 Certificate.....	12
10 Certification marks	13
11 Charges.....	14
12 Certification responsibility	14
13 Certification implementation details.....	14
Attachment 1: Product description of brake-hose	16
Attachment 2: Production consistency requirements	18
Appendix 1: Factory quality assurance capability requirements.....	20
Attachment 3: Certification implementation of service parts for the after-sales maintenance for vehicles out of production.....	26

0 Introduction

This Rules is established based on the security risk and certification risk of [motor vehicle brake hose](#) [Translator note: hereafter abbreviated as [brake-hose](#)]. It stipulates the basic principles and requirements for the implementation of compulsory product certification for brake-hose.

This Rules can be used with other general rules issued by Certification and Accreditation Administration (CNCA), such as “Compulsory Product Certification Implementation Rules - Manufacturing Enterprise Classification Management, Certification Mode Selection and Determination”, “Compulsory Product Certification Implementation Rules – Manufacturing Enterprise Testing Resource and Utilization of Other Certification Results”, “Compulsory Product Certification Implementation Rules - Factory Inspection General Requirements”.

The certification body shall make principles for certification according to the general implementation rules and this Rules and implement them accordingly.

Manufacturing enterprise shall ensure that their certified products are capable of sustaining the compliance with the certification and are compatible with the requirements of the standards.

1 Application scope

This Rules applies to the braking system of M-, N-, O-, and L-type motor vehicles:

- (1) Hydraulic, pneumatic and vacuum brake-hose assemblies;
- (2) Pneumatic and vacuum brake-hoses (It is limited to the brake-hoses that are installed on vehicles, without a permanent hose connector).

Due to the changes in the laws, regulations or related product standards, technology, industry policies and other causes which may change the applicable scope, the announcement released by CNCA shall be final and conclusive.

2 Terms and definitions

Brake-hose: The flexible hose that is used for transmission or storage of hydraulic, pneumatic or vacuum, so as to provide the braking force to the braking system.

Brake-hose assembly: It is composed of brake-hose and brake-hose connector. The connection between the brake-hose and brake-hose connector is permanent connection.

3 Standards for certification

GB 16897 Brake-hose - Structure, performance and test methods

In principle, the latest versions of above standards that are issued by the National Standardization Administration shall be executed. When other versions are required to use, then it shall be executed according to the applicable relevant standards issued by the State Certification and Accreditation Administration (CNCA).

4 Certification modes

The basic certification mode of implementing the compulsory product certification for brake-hose is:

Type test + initial factory inspection + supervision after certification;

“Supervision after certification” in above basic certification mode refers to 1 of the 3 modes – after certification, follow-up inspection and factory on-site sampling testing OR inspection and sampling testing in the market OR inspection.

The certification body shall follow the requirements of “Compulsory Product Certification Implementation Rules - Manufacturing Enterprise Classification Management, Certification Mode Selection and Determination” to carry out the classification management to manufacturing enterprise; consider the results of classification management; on the basis of basic certification mode, appropriately increase the combination of supervision mode after certification, so as to determine the certification mode that is applicable to certification client [TRNASLATOR NOTE is not part of this Rules. Translator note: “certification client”, the counterpart of certification body, refers to the Applicant / Manufacturer or its proxy (Power of Attorney). For ease of reading, hereinafter abbreviated as “CLIENT”].

5 Classification of certification units

In principle, “the brake-hose” products of the same-function, produced by the same-producer (manufacturer) and same-manufacturing enterprise (location), and having no significant difference in the following aspects could be classified as one certification unit:

- (1) brake transmission (hydraulic, pneumatic and vacuum);
- (2) brake-hose material;
- (3) Connection method between hose connector and hose.

In principle, CLIENT shall put forward the certification entrusting based on the principle of unit classification. It may include multiple “models (or specifications)” products in a same-unit. Same-model refers to those products of which the design has no impact to standard compliance.

For the same-product that is of same-manufacturer but of different manufacturing enterprises, or for the same-model product that is of different manufacturers and of same-manufacturing enterprise, it may consider to only conduct the type test on the samples of 1 unit. The products of other

In general, after the type test and the production consistency control plan auditing are qualified, it shall conduct factory on-site inspection.

Certification body shall delegate the inspectors, who are State-registered and qualified inspectors for compulsory product certification, to form the inspection team to conduct the factory on-site inspection. When inspecting, manufacturing enterprise shall have the products running in production. If necessary, certification body may conduct extended inspection to the field and site other than the manufacturing enterprise [Translator note: This means that Certification Body may inspect/audit the part/component/material suppliers of the manufacturing enterprise. For example, if the manufacturing enterprise only carry out the “final assembly”, Certification Body may likely need to inspect/audit the critical components / sub-assembly supplier].

The factory on-site inspection time shall be made according to the unit quantity of the products, and appropriately consider the production scale of the factory. Normally it needs 2-4 man-days for each factory.

When conducting factory on-site inspection, inspection team shall choose samples randomly from the end of the production line or qualified product in the warehouse. Randomly sampled products are inspected, but not limited to, for the following contents:

- a. The structure and parameters of the products to be certified;
- b. Designated test in factory on-site (selected from production consistency control plan).

If no un-conformance product is found, the inspection result is qualified;

If un-conformance products are found, factory is allowed to make rectifications. Certification body adopts appropriate way to confirm the rectification results. The rectification time must not be more than 3 months. If the rectification cannot be finished on time, or the rectification results are not conformant, the inspection result is unqualified.

If there is significant deviation between production consistency control plan and its implementation situation, or the structure and parameters of the actual products are significantly different from the type test samples, the inspection result is disqualified, and this certification is terminated.

7.3 Certification evaluation and approval

Certification body shall make a comprehensive evaluation to the type test, factory inspection results and relevant information / materials. If the evaluation is PASS, the certificate will be granted according to certification unit. If not, the certification is terminated.

7.4 Time limit of the certification

Certification body shall make specific provisions on each steps of the certification, and determine all relevant work to be done within the time limit.

utilize the testing resources of the manufacturing enterprise. The conditions and requirements are the same as [Clause 7.2.2](#) of this Rules.

If it meets the requirements, the change is approved. If renewal certificate is required, the new certificate's serial number and approval validity date shall be, in principle, maintained unchanged; and indicate the approval date for change. If renewal certificate is not required, the change confirmation shall be issued; and indicate the change content and approval date for change.

9.4 Certificate's cancellation, suspension and withdrawal

Certificate's cancellation, suspension and withdrawal shall be implemented in accordance with the "Compulsory product certification management method" and "Compulsory product certificate cancellation, suspension and withdrawal implementation rules", and relevant regulations of certification body. Certification body shall determine the classification and scope of the product that does not comply with the certification requirements; and adopt appropriate way to publicly announce the certificate of cancellation, suspension and withdrawal.

9.5 Use of the certificate

Use of the certificate shall comply with the requirements of "Compulsory product certification management method".

10 Certification marks

The management and use of certification marks shall comply with the provisions of "Compulsory product certification management method".

10.1 Mark style permitted to use

The certified brake-hose shall use Safety-type (S) certification mark. The style is as follows:



10.2 Use requirements

The compulsory product certification marks shall be printed or molded with non-standard specification. The marks shall be preserved permanently. The mark shall be easily seen without damaging the vehicle and the certified products.

According to the characteristic of the product and process, the printing or molding marks can be completed in any stage of the product production.

product.

2.2 Assembly drawings of brake-hose that are enough to identify the main characteristics of the brake-hose.

2.3 Drawings of hose connector.

3 Critical components and raw material list

It shall be consistent with those in the “Production Consistency Control Plan”. The list shall include at least the names, models, specifications, and suppliers of the critical components (materials).

determine if those resources can be continuously obtained and used appropriately. Factory shall preserve relevant records with exterior resources, such as contract and usage record.

2. Documents and Records

2.1. Factory shall establish procedure to maintain documents and determine if they have full control on the files and records. The standard and norms of product design shall be higher than the certification requirements. For the main contents which affect the consistency of products, factory shall have design documents such as drawings, templates and critical components list, process files and operation instructions. And ensure the documents to be continuously valid.

2.2. Factory shall ensure the document sufficiency and applicability, and valid version of the documents used.

2.3. Factory shall establish and maintain documented procedures to define the controls for the identification, storage, protection and disposition of quality records. Records shall be legible, integral to provide evidence of product conformity to requirements. Records shall be retained for an appropriate period and meet the requirements of laws and regulations. Documents shall provide records of last inspection, which is no less than 24 months.

2.4. Factory shall identify and preserve important files and quality information on product certification, including type test report, factory inspection result, CCC certificate information (validity, suspension, cancellation and withdrawal), approval of certification change, supervision sampling test report, product quality complaints and handling results etc.

3. Purchasing and critical components control

3.1 Purchasing control

Factory shall identify and specify the technical requirements in purchasing documents. The technical requirements shall ensure that the products meet the certification requirements. *The purchasing documents shall include the requirements to approve the product and manufacturing process of critical components and raw material suppliers.*

Factory shall establish the critical components manufacturer catalogue and record the information, and purchase from the qualified supplier. Factory shall preserve the records of critical components purchasing and use, such as in-and-out warehouse list, and standing account.

3.2. Critical components quality control

3.2.1 Factory shall establish procedures, *to maintain documented procedures, which include test items, methods, frequency and criteria.* Factory shall also make record on the validity and inspection on the critical components when they are stocked in the warehouse.

3.2.2. For the quality of the critical components, factory shall choose the

Attachment 3: Certification implementation of service parts for the after-sales maintenance for vehicles out of production

1. CLIENT put forward the certification entrusting. Append “After-sales service part for out of production vehicle model xxx” in product name in the application materials (only for xxx service parts)

2. CLIENT submit the application materials

1) The vehicle factory provides the out of production certificate for the vehicles (Official seal, not from competent department, such as purchasing or product department)

2) The former compulsory test report of the part

3) The annual usage quantity of the part

4) Materials such as application form and product description, according to the requirements of CCC materials of mass production vehicle's part

3. Documentation auditing by designated certification body

4. Type test (it can be exempted by inspecting the former compulsory test report)

5. Initial factory inspection:

1) Factory that already has CCC certificate of same-category product can be exempted from inspection

2) Factory without certificate needs to be re-inspected. However, the consistency inspection standards can be based on the standards to which the product was type tested

6. Evaluation and approval of the certification result

The certificate shall be issued according to units. There shall be a note in the product certificate: after-sales service part for out of production vehicle model xxx

7. Certificate and certification markings

The certification validity of after-sales service part for out of production vehicle shall be made after negotiation between certification body and CLIENT based on risk evaluation, but the period shall not be more than 10 years.

It is allowed to use the unified-printed standard-specification CCC markings by CNCA.

8. Supervision after certification

Certification body shall consider the manufacturing enterprise classification management and actual situation, formulate a specific plan according to their different supervision method after certification.

The follow-up inspection and/or factory on-site inspection and market sampling test can be in accordance with the standards to which the product was type tested.

During the follow-up inspection, if there is same-category product (not vehicle out of production) obtain the certificate, it is allowed to conduct follow-up inspection or factory on-site inspection on the other same-category products. That is, the after-sales service part of vehicle out of production are not required to be on production.

If there is no same-category products (not vehicles out of production) obtaining the certificate, then:

For in-warehouse type of the after-sales service part of vehicles out of production, the enterprise shall provide evidence for the consistent conformity to relevant requirements. If certification body is not satisfied or doubtful about the evidence, they can conduct factory on-site sampling inspection and test.

For order-form type of the after-sales service part of vehicles out of production, the enterprise shall provide the production record within two years, and shall implement the verification test and maintain the record. Certification body can conduct factory on-site sampling inspection and test.

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