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Project no: 9875
Customer: VA-KO*

FINAL ASSESSMENT REPORT

NoBo Mission

Related to “EC” Type Examination of a Sggmrs 90' Wagon from VA-KO (module SB)




CONFIDENTIAL

LIST OF SUCCESSIVE VERSIONS:

Version	Date	Changes
1	19/12/2021	Initial version

The latest version supersedes the previous.

VALIDATION:

	Signature
Name: Jean-François Kremer Function: Project Manager	

People who have written and checked this report (listed on the cover) approved it using secure electronic authorization, with CERTIFER's EDM software keeping a trace of it.

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List of attached documents

EC_9875_0003_03 Workbook TSI-WAG 2019

EC_9875_0004_01 Workbook TSI-NOI 2019

1. Context of the Project

1.1. General

CERTIFER's business is part of a notified body's (NoBo) mission in the field of the technical regulations and specifications for interoperability.

1.2. Identification of the product subject to conformity assessment

The purpose is to evaluate a new Sggmrs 90'-type flat wagon, designed and manufactured in Turkey by VA-KO.

1.3. Identification of reference documents

- Directive (EU) 2016/797 of 11 May 2016 concerning the interoperability of the rail system within the Community as amended
- COMMISSION REGULATION (EU) No 321/2013 of 13 March 2013 concerning the technical specification for interoperability relating to the subsystem 'rolling stock — freight wagons' of the rail system in the European Union, repealing Decision 2006/861/EC and Amended by Commission Implementing Regulation (EU) 2019/776 of 16 May 2019
- COMMISSION REGULATION (EU) No 1304/2014 of 26 November 2014 on the technical specification for interoperability relating to the subsystem 'rolling stock — noise' amending Decision 2008/232/EC, repealing Decision 2011/229/EU and Amended by Commission Implementing Regulation (EU) 2019/774 of 16 May 2019
- COMMISSION IMPLEMENTING REGULATION (EU) 2018/545 of 4 April 2018 establishing practical arrangements for the railway vehicle authorisation and railway vehicle type authorisation process pursuant to Directive (EU) 2016/797 of the European Parliament and of the Council
- Regulation (UE) 2020/387 of the commission of the 9 March 2020 modifying the Regulation (UE) no 321/2013 concerning extension of the area of uses and transition phases
- Technical document 000MRA1044 of ERA version 1.1

1.4. Identification of Assessment Plan

DP_4254_0001 version 2 (06/08/2021)

This "EC" type examination relates to the Sggmrs 90' type; the Sggmrs 80' type is not considered.

1.5. Identification of the product designer or manufacturer

VA-KO

Fatih Sultan Mah. 2368 Sok. No:6
Çamlıkpark , Etimesgut / Ankara

1.6. Name and function of stakeholders (including subcontractors) in charge of the assessment

Senior Project Manager	Jean-François Kremer
Junior Project Manager	Ömer Şimşek
Senior Lead Assessor	Henri Lagneau
Junior Lead Assessor	Burak Koç
Senior Brake Assessor	Gerrit Pluquet
Junior Brake Assessor	Mehmet Firat Aygen
Senior Mechanical engineering, Noise, CSM Assessor	Henri Lagneau
Junior Mechanical engineering, Noise, CSM Assessor	Burak Koç
Senior Type Inspector	Jean-Michel Perz
Junior Type Inspector	Mert Türkkän

1.7. Scope of the assessment described in this report

The assessment of conformity of the product with the technical requirements expressed in the applicable TSI shall be conducted by the examination of the design / construction file of the wagon under assessment.

1.8. Restraints and assumptions related to the compliance assessment

NA

2. Description of the assessment work

2.1. Assessment methods

CERTIFER carries out the assessment with respect to its Quality Management System, which guarantees compliance with the following requirements:

- Assessment methodology,
- Technical Skills of the assessors,
- Impartiality,
- Confidentiality

For this NoBo mission CERTIFER is accredited under n°5-0572 by the "Industrial Products and service Certification" section of COFRAC (French Committee of Accreditation) according to NF EN ISO CEI 17065:2012. The scope is available on www.cofrac.fr.

The assessment is carried out by an Assessor in the Technical Field who is appointed by one of the Section Committees of CERTIFER.

The final report is edited by the Assessor, under the supervision of the Project Manager.

2.2. Measurements or tests

2.2.1. Measurements or tests performed by or on behalf of CERTIFER

NA

2.2.2. Measurements or tests accepted as input data

The tests carried out in the framework of this “EC” Type Examination were all witnessed by a member of the evaluation team and are therefore trustful.

The test results accepted as input data are trustfully acceptable.

2.3. Identification of the documents or products assessed

The general layout and design characteristics of the wagon are given in Document 101 Sggmrs 90' Project Drawings VK-90.00.00.00.00.

The documents describing the Sggmrs 90' wagon are those referred to in the tab “Documents” of the attached EC_9875_0003_03 Workbook TSI-WAG 2019.

2.4. Development process of the assessment work

The development of the assessment took place from 12/08/2021 until now.

The assessment of the Sggmrs 90' type is carried out according to the Assessment Plan.

CERTIFER has not subcontracted any part of the work.

3. Results

3.1. Exchange between VA-KO and CERTIFER

The exchanges between the applicant and CERTIFER are traced in the exchange of emails. All questions and requests for supporting documents have been satisfactorily answered and are closed.

The point is completely satisfying.

3.2. Assessment of conformity with the technical specification for interoperability relating to the subsystem ‘rolling stock — freight wagons’

The assessment is recorded in the attached document (EC_9875_0003_03 Workbook TSI-WAG 2019). According to the expert opinion, in view of the explanations given by the applicant and the results of the assessment of the design documents, the wagon is technically compliant with:

- the essential requirements
- the clause 7.1.2. Mutual recognition of the first authorisation of placing on the market
- the Appendix C totally [GE wagon].

The demonstration of conformity of the wagon is acceptable.

3.3. Assessment of conformity of Constituents of Interoperability

Constituents are described in table CI in attached document (EC_9875_0003_03 Workbook TSI-WAG 2019).

It can be assessed that the constituents are implemented on the sub-system within their respective areas of use.

The demonstration of conformity is acceptable.

3.4. Assessment of conformity with the technical specification for interoperability relating to the subsystem 'rolling stock — noise'

The assessment is recorded in the attached document (EC_9875_0004_01 Workbook TSI-NOI 2019). The wagon is technically compliant with the requirements on the basis of full-scale tests carried out following the contents of the TSI.

The demonstration of conformity of the wagon is acceptable.

3.5. Technical compatibility of the vehicle with the network in the area of use

The technical compatibility of the vehicle is documented on the sheet "Restriction codes" in attached document (EC_9875_0003_03 Workbook TSI-WAG 2019).

The point is completely satisfying.

3.6. Type inspection

The wagon type 33 75 4953 000-0 was subject of an inspection on production site by CERIFER on 2021-12-17. All of the items are compliant and the wagon type is fully compliant with the documents provided in the framework of EC-Type Examination.

3.6.1. Documentation

The following items have been inspected:

- Full list of technical drawing can be found in BoM list
- The dossier of configuration of the wagon inspected with the list of drawings is complete
- Whole control forms have been provided
- Welding plans, WPS/PQR, Welding control forms, Welding maps were examined
- All materials and all consumable materials have quality certificates and CE markings

3.6.2. Visual inspection

The following items have been inspected:

- Marking on the wagon
- Welding seams, Torque tightening check marks
- General inspection of the wagon

Nota: these results relate exclusively to the elements of the service described in the paragraph 1 above.

4. Conclusion

The wagon complies with:

- the "EC" type examination of regulations applicable to interoperable freight wagons
- the clause 7.1.2. Mutual recognition of the first authorisation of placing on the market
- the Appendix C totally [GE wagon].

The assessment team is in agreement with the "EC" certification (module SB) of the wagon.