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RATTAPAARIDE KÄITUSNÕUDED. KASUTUSES JA
VEEREMILT EEMALDATUD RATTAPAARIDE
HOOLDAMINE

Railway applications - In-service wheelset operation
requirements - In-service and off-vehicle wheelset
maintenance

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 15313:2024 sisaldab Euroopa standardi EN 15313:2024 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 09.10.2024.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 15313:2024 consists of the English text of the European standard EN 15313:2024.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 09.10.2024.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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English Version

Railway applications - In-service wheelset operation requirements - In-service and off-vehicle wheelset maintenance

Applications ferroviaires - Exploitation des essieux en service - Maintenance des essieux en exploitation ou déposés

Bahnanwendungen - Radsätze und Drehgestelle - Radsatzinstandhaltung

This European Standard was approved by CEN on 12 August 2024.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 15313:2024) has been prepared by Technical Committee CEN/TC 256 “Railway applications”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2025, and conflicting national standards shall be withdrawn at the latest by April 2025.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 15313:2016.

In comparison with the previous edition, the following technical modifications have been made:

- a clearer definition of the signs to identify thermal overload of wheels and associated pictures;
- the maintenance requirements to be followed when thermal overloading of a wheel is identified.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Introduction

The objectives of this amendment to EN 15313:2016 are to:

- incorporate the appropriate results of the ERA Joint Network Secretariat “broken wheels” and Joint Sector Group task force.

This document is a preview generated by EVS

1 Scope

To ensure safety and interoperability, this document gives:

- the limits for in-service and off-vehicle wheelsets;
- the operations to be carried out for which the specific values (and/or criteria) remain to be defined in the maintenance plan.

This document applies to wheelsets and axleboxes complying with the following European standards:

- EN 13103-1:2017+A1:2022;
- EN 13260:2020, EN 13261:2020, EN 13262:2020;
- EN 13979-1:2023;
- EN 13715:2020;
- EN 13749:2021+A1:2023;

that comprise:

- the axle fitted with wheels of diameters greater than or equal to 330 mm;
- axleboxes with bearings and grease.

This document is also applicable to wheelsets:

- fitted with brake discs, final drive, transmission or noise-damping systems, as appropriate;
- not complying with the above European standards, but complying with the international requirements in force, for example in UIC leaflets, before the approval of these standards;
- with tyred wheels;
- with resilient wheels.

For equipment not covered by Directive (EU) 2016/797, this European Standard can be applied, noting that different values can be used.

All dimensions in this document are in millimetres (mm).

It is necessary to describe in a specific document the tasks to be performed in order to maintain wheelsets within the limits defined therein.

NOTE The specific values and criteria are defined in an appropriate maintenance plan.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13260:2020, *Railway applications — Wheelsets and bogies — Wheelsets — Product requirements*

EN 13261:2020, *Railway applications — Wheelsets and bogies — Axles — Product requirements*

EN 13262:2020, *Railway applications — Wheelsets and bogies — Wheels — Product requirements*

EN 13715:2020, *Railway applications — Wheelsets and bogies — Wheels — Tread profile*

EN 13979-1:2023, *Railway applications — Wheelsets and bogies — Monobloc wheels — Technical approval procedure — Part 1: Forged and rolled wheels*

EN 15085-2:2020+A1:2023, *Railway applications — Welding of railway vehicles and components — Part 2: Requirements for welding manufacturer*

EN ISO 9712:2022, *Non-destructive testing — Qualification and certification of NDT personnel (ISO 9712:2021)*

EN ISO 9934-1:2016, *Non-destructive testing — Magnetic particle testing — Part 1: General principles (ISO 9934-1:2016)*

EN ISO 9934-2:2015, *Non-destructive testing — Magnetic particle testing — Part 2: Detection media (ISO 9934-2:2015)*

EN ISO 9934-3:2015, *Non-destructive testing — Magnetic particle testing — Part 3: Equipment (ISO 9934-3:2015)*

3 Terms, definitions, symbols and abbreviated terms

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

technical expert

person(s) competent in the maintenance of wheelsets

3.2

ECM

Entity in Charge of Maintenance

3.3

wheelset maintenance levels

maintenance of wheelsets is divided into 3 maintenance levels:

- reprofiling;
- medium wheelset maintenance;
- heavy wheelset maintenance

Note 1 to entry: Reprofilng is a maintenance level that corresponds to reprofiling of wheels (in-service or off-vehicle) and depends mainly on the wear of the wheel or the tread defects.

Note 2 to entry: Medium wheelset maintenance corresponds to off-vehicle overhaul of wheelset (revision of bearing and reprofiling of wheels).