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| **Subject** | [Rolling stock - other](https://extranet.era.europa.eu/safety/SIS/_layouts/15/listform.aspx?PageType=4&ListId=83202955-4d3b-45bd-adf9-43f693ecb55a&ID=4&RootFolder=*) |
| **Equipment** | Cracks in the stifferners ring of type Z23A tank wagons series Zacns |
| **Description** | See also alert issued by Poland at 28/02/2018:   The Dutch NSA has send the following safety warning to railwayuntherrakers at 16/03/2018:   A number of railway undertakings have asked for additional information which can be used for instructing the executive staff. In the attachment you find therefore: • A picture of the type Z23A tank wagon with the concerned stiffening rings. The blue arrows point at the possible cracks positions • A picture of a tank 3D model  snapshot with the applicable position numbers for welds placed at the stiffening rings • Two example pictures of the cracks itself  and  As NSA I would like to inform you about cracks in the stiffeners ring of tank wagons type Z23A an Z24A, series Zacns.   We are informed by Greenbrier about cracks in the in the stiffeners ring of tank wagons type: • Z23A, series Zacns, capacity 87m3 It contains 400 wagons, see picture in attachment.   • Z24A, series Zacns, capacity 97 m3 It contains 50 wagons, see picture in attechement.    Greenbrier has analyzed the structure of a wagon with cracks in the stiffeners ring including the welds. The analysis showed that the cracks are caused by welding defects. The users of the concerned wagons (numbers in the pictures above) are informed by Greenbrier.   From the aspect safety we did concern that: • The cracks on the rings are gradual and not abrupt. According to Greenbrier it is easy to detect during a visual inspection. Greenbrier has taken action that supervision will be done by Greenbrier with agreement between the owner and the users.  Continuous supervision over the operation of wagons will be carried out until they are repaired or until they are subject to mandatory revision after 4 years of operation.  • If a crack is detected on the rings, regardless of its size, immediate withdrawal of the wagons from service and referral for repair is recommended. Please inform the keeper of the concerned wagons: NACCO SAS and Enforcement Rail, Rail and Road Transport: +31 (0)6 52 67 12 22 (accessible 24 hours a day) •         Greenbrier has initiated further actions: o    Greenbrier is inspecting all wagons type Z23A. The cracks on the rings is gradual and not abrupt . o    Three wagons with cracks will be delivered to Wagony Świdnica for doing more tests and repair.   Based on the information of the further tests, carried out by Greenbrier you will be informed.    This e-mail is sent to all railway undertakings with a safety certificate (A or B) for the Netherlands concerning the transport of (dangerous) goods and the NSA’s of Germany, Belgium and France. |
| **Country** | Netherlands |
| **Issuer** | NSA |
| **Issuing Date** | 20/03/2018 |
| **Attachments** | |  | | --- | | [Attachment safety alert cracks in stiffeners ring Z23A and Z24A tank wagons series Zacns.pdf](https://extranet.era.europa.eu/safety/SIS/Lists/Safety%20Alert/Attachments/66/Attachment%20safety%20alert%20cracks%20in%20stiffeners%20ring%20Z23A%20and%20Z24A%20tank%20wagons%20series%20Zacns.pdf) | | [NACCO 87 m3 wagons.JPG](https://extranet.era.europa.eu/safety/SIS/Lists/Safety%20Alert/Attachments/66/NACCO%2087%20m3%20wagons.JPG) | | [NACCO 97 m3 wagons.JPG](https://extranet.era.europa.eu/safety/SIS/Lists/Safety%20Alert/Attachments/66/NACCO%2097%20m3%20wagons.JPG) | |

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| |  | | --- | | Content Type: Safety Alert |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  | | --- | | Version: 3.0 | | Created at 20/03/2018 12:54  by [Bart Olthoff](https://extranet.era.europa.eu/safety/SIS/_layouts/15/listform.aspx?PageType=4&ListId=%7b76417053-0267-4100-9853-6d1f73924e54%7d&ID=7034) | | Last modified at 20/03/2018 12:55  by [Bart Olthoff](https://extranet.era.europa.eu/safety/SIS/_layouts/15/listform.aspx?PageType=4&ListId=%7b76417053-0267-4100-9853-6d1f73924e54%7d&ID=7034) | |  | |