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Overview

MD-11 Report

The MD-11 Report provides Railinc with reporting information on defective bearings for WHY MADE CODES 50, 51, 52, 91 and 95.

Rule 36 in the Field Manual of AAR Interchange Rules establishes the minimum mechanical requirements for removing roller bearings. MD Reports automates elements of Rule 36 and Mechanical Defect processes and enables railroads and shops to submit Mechanical Defect Form MD-11 to Railinc for analysis with the goal of reducing mechanical service interruptions (derailments and other line of road failures) and increasing yard and shop efficiency.

MD-115 Report

The MD-115 Report must be submitted to Railinc within 15 days of wheel removal for each wheel removed for WHY MADE CODES 66, 68, 69, 71, 83 and 85.

Rule 41 in the Field Manual of AAR Interchange Rules establishes the minimum mechanical requirements for removing defective wheels.

MD-115 Reports are submitted to Railinc for analysis with the goal of reducing mechanical service interruptions (derailments and other line of road failures) and increasing yard and shop efficiency.

Accessing the Railinc Customer Success Center

The Railinc Customer Success Center provides reliable, timely, and high-level support for Railinc customers. Representatives are available to answer calls and respond to emails from 7:00 a.m. to 7:00 p.m. Eastern time, Monday through Friday, and provide on-call support via pager for all other hours to ensure support 24 hours a day, 7 days a week. Contact us toll-free by phone at 877-RAILINC (1-877-724-5462) or send an email directly to csc@railinc.com.
Getting Started

MD Reports is accessed using the Railinc Single Sign-On (SSO), which is accessed from the Railinc portal at http://www.railinc.com. The SSO Login is located at the upper right of the screen.

Register to Use Railinc SSO

For access to MD Reports and other Railinc applications, register to use Railinc Single Sign-On. Refer to the Railinc Single Sign On/Launch Pad User Guide for information about the use of Railinc Single Sign On.

Once SSO registration is complete, you request access to MD Reports within SSO.

Requesting MD Reports Access

After you receive authorization to use Railinc SSO, you must request general access to MD Reports by following instructions in the Railinc Single Sign On/Launch Pad User Guide. To access MD Reports, select one or more of the available roles. Your level of access to the MD Reports is determined when you request access through Railinc Single Sign-On. Exhibit 1 shows a complete list of available roles as seen in SSO.

Exhibit 1. MD Reports Applicable Permission Requests
Logging In

To log into the MD Reports:

1. Open the browser.
3. Log in to SSO (at upper right).
4. Select the My Applications link. Your authorized Railinc applications are displayed.
5. Select MD Reports.
6. The MD Reports Home page is displayed. The menu items available differ depending on your role. Exhibit 2 shows the menu items that support MD Reports functionality.

MD Reports Menu

Exhibit 2. MD Reports Home Page

Logging Out

Select the Sign Out link in the upper right corner to end a MD Reports session. You are returned to the SSO Login Page.
Submit MD-11 Report

Form MD-11 enables the mechanical defect user role to report information about defective bearings. Rule 36 is governed by the AAR and overseen by the AAR’s Wheel, Axle, Bearing and Lubrication Committee (WABL). If you have questions about completing Form MD-11, send an email to wabl@aar.com. If you experience technical difficulties with the electronic form, contact Railinc’s Customer Success Center at csc@railinc.com or 1-877-RAILINC (724-5462).

**Note:** MD-11 requires that a separate report be submitted for each defective bearing.

Use the following procedure to complete Form MD-11:

1. Log into the MD Reports as described in Logging In on page 3. The MD Reports Home page is displayed (see Exhibit 2).

2. From the menu bar, select MD-11 and choose Submit MD-11 Report. The MD-11 Report page is displayed (see Exhibit 3).
3. Complete all required fields marked with a red asterisk.

- Contact information on this page is prepopulated based on information in your SSO profile. Changing your contact information for this report will not change the information in your SSO profile.

- The **Date of Failure** field must contain a valid date within the past year and must be earlier than the Repair Date. If the date of failure is older than one year, please contact TTCI at wabl@aar.com.

- The **Repair Date** field must contain the current date or an earlier date.

4. Once the report is submitted, it can only be viewed and no longer edited. When the appropriate fields have been entered, click **Submit**. A submission success/failure message is displayed.
5. Select **View/Print** to view or print a copy of the completed form for your records. To print the page, use your browser’s printing functionality. For example: **File > Print**.

6. Verify report has been assigned an MD-ID, located in the first row of the report view.

7. Once the report has been viewed or printed, click **Done** at the bottom of the page.
### Exhibit 5. View of Submitted MD-11 Report

#### MD-11 Roller Bearing Inspection Report

<table>
<thead>
<tr>
<th>Report Identification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MOID</strong></td>
</tr>
<tr>
<td>Created Date</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reporter Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
</tr>
<tr>
<td><strong>PhoneNumber</strong></td>
</tr>
<tr>
<td><strong>Email</strong></td>
</tr>
<tr>
<td><strong>City</strong></td>
</tr>
<tr>
<td><strong>State prov/vince</strong></td>
</tr>
<tr>
<td><strong>Country</strong></td>
</tr>
<tr>
<td><strong>Railroad/Company</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Equipment Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equipment Initial</strong></td>
</tr>
<tr>
<td><strong>Equipment Number</strong></td>
</tr>
<tr>
<td><strong>Type of Equipment</strong></td>
</tr>
<tr>
<td><strong>Derailment</strong></td>
</tr>
<tr>
<td><strong>Date of Failure</strong></td>
</tr>
<tr>
<td><strong>Repair Date</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Equipment Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equipment Initial</strong></td>
</tr>
<tr>
<td><strong>Equipment Number</strong></td>
</tr>
<tr>
<td><strong>Type of Equipment</strong></td>
</tr>
<tr>
<td><strong>Derailment</strong></td>
</tr>
<tr>
<td><strong>Date of Failure</strong></td>
</tr>
<tr>
<td><strong>Repair Date</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bearing/Axle Inspection Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bearing Mark</strong></td>
</tr>
<tr>
<td><strong>Adapter Condition</strong></td>
</tr>
<tr>
<td><strong>Adapter Pad Condition</strong></td>
</tr>
<tr>
<td><strong>Method of Detection</strong></td>
</tr>
<tr>
<td><strong>Elastomeric Adapter Pad</strong></td>
</tr>
<tr>
<td><strong>Failed Bearing Equipment Side</strong></td>
</tr>
<tr>
<td><strong>Axle Position</strong></td>
</tr>
<tr>
<td><strong>Journal Bearing Size</strong></td>
</tr>
<tr>
<td><strong>Journal Burnt Off</strong></td>
</tr>
<tr>
<td><strong>Why Made Code</strong></td>
</tr>
<tr>
<td><strong>Wheel Serial Number</strong></td>
</tr>
</tbody>
</table>
External Inspection

MD Reports allows users to download reports for external inspection and upload completed external inspections. MD Inspectors must have permission for given performer road(s) to download and upload reports. To request permissions, submit your role requests at MD Reports application.

Download Reports

1. From the menu bar, select MD-11 and choose **Download Reports for External Inspection**.

   *Exhibit 6. Select Download Reports for External Inspection*

2. Select your performer mark(s) by clicking inside the checkbox(es) and click **Download File**.

   *Exhibit 7. Download Reports for External Inspection*

3. Open or save the .CSV file to your computer. The .CSV file includes all completed fields that the MD11 Reporter has submitted and empty fields for the MD11 External Inspector to enter.
4. Once the External Inspector has entered the appropriate fields, follow steps for **Upload Completed External Inspections**. Refer to the **MD11 Specifications Document** for field formats and values.

**Upload Completed External Inspections**

1. From the menu bar, select MD-11 and choose **Upload Completed External Inspections**.

**Exhibit 9. Select Upload Completed External Inspections**

2. Browse and selected your completed MD11 Report for External Inspections. Keep in mind:
   - The file is in CSV format and there can be multiple records in one file.
   - Validation takes place during the upload process and even if one record is incorrect, the entire file is rejected.
   - When a file is rejected, an email is sent to the External Inspector with the status of “Rejected” with an attachment of the error messages and codes for making appropriate corrections and uploading again.
   - When a file is accepted, it has passed all the validations and an email is sent to the External Inspector with the status of “Accepted”.
   - Long numbers like serial numbers may display as scientific numbers (e.g., 1.23E3+13). This is Microsoft Excel’s way of translating long numbers into scientific notations. If widening the affected column does not change it back to a standard number, use these steps before saving and uploading your file:
     1. Select the column that has the long number and right-click
     2. Select **Format Cells > Custom**
     3. Select 0 for **Type** and click **OK**
   - Refer to the **MD11 Specifications Document** for valid field formats and values.
Internal Inspection

MD Reports allows users to download reports for internal inspection and upload completed internal inspections. MD Inspectors must have permission for given performer road(s) to download and upload reports. To request permissions, submit your role requests at MD Reports application.

Download Reports

1. From the menu bar, select MD-11 and choose Download Reports for Internal Inspection.

   Exhibit 10. Select Download Reports for Internal Inspection

   ![Download Reports for Internal Inspection]

2. Select your performer mark(s) by clicking inside the checkbox(es) and click Download File.

   Exhibit 11. Download Reports for Internal Inspection

   ![Download Reports for Internal Inspection]

3. Open or save the .CSV file to your computer. The .CSV file includes all completed fields that the MD11 Reporter has submitted and empty fields for the MD11 External Inspector to enter.

4. Once the External Inspector has entered the appropriate fields, follow steps for Upload Completed Internal Inspections. Refer to the MD11 Specifications Document for field formats and values.
Upload Completed Internal Inspections

1. From the menu bar, select MD-11 and choose Upload Completed Internal Inspections.

Exhibit 12. Select Upload Completed Internal Inspections

3. Browse and selected your completed MD11 Report for Internal Inspections. Keep in mind:
   - The file is in CSV format and there can be multiple records in one file.
   - Validation takes place during the upload process and even if one record is incorrect, the entire file is rejected.
   - When a file is rejected, an email is sent to the Internal Inspector with the status of “Rejected” with an attachment of the error messages and codes for making appropriate corrections and uploading again.
   - When a file is accepted, it has passed all the validations and an email is sent to the Internal Inspector with the status of “Accepted”.
   - Long numbers like serial numbers may display as scientific numbers (e.g., 1.23E3+13). This is Microsoft Excel’s way of translating long numbers into scientific notations. If widening the affected column does not change it back to a standard number, use these steps before saving and uploading your file:
     1. Select the column that has the long number and right-click
     2. Select Format Cells > Custom
     3. Select 0 for Type and click OK
   - Refer to the MD11 Specifications Document for valid field formats and values.
Search MD-11 Reports

The Mechanical Defect Admin User role is the only role with access to use the MD-11 search feature. Users with this access have the ability to view a submitted report by following the steps below.

1. Select MD-11 from the menu bar and choose Search MD11 Reports. The search form offers search criteria examples in gray.

2. Enter your search criteria. For example, select mark from the Performing Mark drop-down field and click Search. The Search Results returns with all MD-11 reports for the given mark.

Exhibit 13. Search MD-11 Reports

3. To view the report, click on the MD11 ID link located in the first column of the Search Results (example in Exhibit 14). For an example of a submitted MD Report, see Exhibit 5.

Exhibit 14. MD-11 Search Results

<table>
<thead>
<tr>
<th>MD11 ID</th>
<th>Equipment ID</th>
<th>Repair Date</th>
<th>Reporting Mark</th>
<th>Performer...</th>
</tr>
</thead>
<tbody>
<tr>
<td>52UQGB</td>
<td>RAIL0000009999</td>
<td>07/12/2017</td>
<td>RAIL</td>
<td>KCS</td>
</tr>
<tr>
<td>AOGUEE</td>
<td>RAIL0000009999</td>
<td>07/07/2017</td>
<td>RAIL</td>
<td>KCS</td>
</tr>
</tbody>
</table>
MD-115 Report

Submit MD-115 Report

Form MD-115 enables users to report information about wheels that are removed for defects. Refer to Rule 41 in the Field Manual of the AAR Interchange Rules for more information. Mechanical Defects are overseen by the AAR’s Wheel, Axle, Bearing and Lubrication Committee (WABL). If you have questions about completing Form MD-115, send an email to wabl@aar.com. If you experience technical difficulties with the electronic form, contact Railinc’s Customer Success Center at csc@railinc.com or 877-724-5462.

Use the following procedure to complete Form MD-115:

Note: Form MD-115 requires that each wheel defect be submitted separately.

2. Log into the MD Reports as described inlogging in on page 3. The MD Reports Home page is displayed (see Exhibit 2).

3. Select MD Reports > MD-115. The MD-115: Contact Information page is displayed (see Exhibit 15).

Exhibit 15. MD-115 Contact Information

Information on this page is prepopulated based on information in your SSO profile.

Note: The Railroad/Company field is not prepopulated and must be completed to proceed. If you select Other for Railroad/Company, you must enter your mark/Company ID.

4. Complete the required fields on the MD-115: Contact Information page, and select Continue. The MD-115: Equipment Details page is displayed (see Exhibit 16).
5. Complete the required fields on the MD-115: Equipment Details page, and select **Continue**. The MD-115: Wheel Set Details page is displayed as seen in **Exhibit 17**.

**Notes:**

- The Date of Failure field must contain a valid date within the past year. If the date of failure is older than one year, please contact TTCI at wabl@aar.com.
- The Repair Date field must contain the current date or an earlier date.
**Exhibit 17. MD-115 Wheel Set Details**

![MD-115 Wheel Set Details](image_url)

**Disclaimer-MD-115 Form**

Instructions: This report is to cover wheels which are removed for defects, represented by the following WYMADE CODES 69, 68, 67, 71, 83 and 85 (see Field Manual of AAR Interchange Rules, Rule 41). All items should be completed. If the number or letters are illegible, please use "XX" where applicable. For MD-115 related comments or questions please email the WABI Webmaster. If you experience any technical issues, please call Railinc at 1-877-724-5492 or email Customer Support.

<table>
<thead>
<tr>
<th>CONTACT INFORMATION</th>
<th>EQUIPMENT DETAILS</th>
<th>WHEEL SET DETAILS</th>
<th>BRAKE/DEFECT DETAILS</th>
<th>ATTACHMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheel Set Component</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Init.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Narrow Flange Finger Reading</td>
<td>*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Journal Size</td>
<td>* 5.5 X 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wheel Type</td>
<td>* 1 Wear</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Defect Type</td>
<td>* 69-Thermal Crack Extending into Plate</td>
<td>Click for sample Picture</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Point Discoloration Measurement</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Back Discoloration Measurement</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Hub Stamp 1**

<table>
<thead>
<tr>
<th>Mounting Date</th>
<th>* XX</th>
<th>Wheel Shop Mark</th>
<th>* RAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Defective Wheel**

<table>
<thead>
<tr>
<th>Wheel Serial Number</th>
<th>1233</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Manufactured</td>
<td>01</td>
</tr>
<tr>
<td>Wheel Manufacturer</td>
<td>FW</td>
</tr>
<tr>
<td>Wheel Designation</td>
<td>A</td>
</tr>
</tbody>
</table>

**Mate Wheel**

<table>
<thead>
<tr>
<th>Wheel Serial Number</th>
<th>12345</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Manufactured</td>
<td>01</td>
</tr>
<tr>
<td>Wheel Manufacturer</td>
<td>FM</td>
</tr>
<tr>
<td>Wheel Designation</td>
<td>A</td>
</tr>
</tbody>
</table>

**Hub Stamp 2**

<table>
<thead>
<tr>
<th>Mounting Date</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td></td>
</tr>
</tbody>
</table>

**Defective Wheel**

<table>
<thead>
<tr>
<th>Wheel Shop Mark</th>
<th>AARE</th>
</tr>
</thead>
</table>

**Mate Wheel**

<table>
<thead>
<tr>
<th>Wheel Shop Mark</th>
<th>AKDN</th>
</tr>
</thead>
</table>

**Hub Stamp 3**

<table>
<thead>
<tr>
<th>Mounting Shop Mark</th>
<th>* RAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date Manufactured</td>
<td>12</td>
</tr>
<tr>
<td>2016</td>
<td></td>
</tr>
<tr>
<td>New or Reconditioned</td>
<td>R</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reconditioned Shop Mark</th>
<th>* RAIL</th>
</tr>
</thead>
</table>
6. Complete the required fields on the MD-115: Wheel Set Details page, and select **Continue**. The MD-115: Brake/Defect Details page is displayed as seen in **Exhibit 18**.

**Note:** For date fields on the Wheel Set Details page (e.g., Mounting Date), if the information is unknown, select or enter XX for the month and XXXX for the year (using all-caps). Keep in mind that you can only enter dates for the last 50 years.

**Exhibit 18. MD-115 Brake/Defect Details**

7. Complete the required fields on the MD-115: Brake/Defect Details page, and select **Continue**. The MD-115: Attachments page is displayed as seen in **Exhibit 19**.

**Exhibit 19. MD-115 Attachments**
8. Select **Choose File** to add attachments as needed on the MD-115: Attachments page. It is recommended that you add at least three pictures of the failure and one picture of the locking plate. You can attach up to five files.

**Notes:**

- You can attach files in the following formats: .JPG, .PNG, .TIFF, and .GIF. There is a 10 MB size limit for each individual image.
- You can select **Remove** to remove an attached file from the form.
- The recommended attachments are requested but are not required to submit Form MD-115. However, once the form is submitted, you will not be able to update the submission with attachments.
- Before you submit the form, you can return to any previously completed page by selecting one of the page names at the top of the form. You can navigate between pages by selecting the **Back** and **Continue** buttons. However, once you submit the form, you will not be able to go back to the form to view it or make any changes. Once the form is successfully submitted, you can print a copy for your records (see below).

9. When you have completed the form, select **Submit**. A submission success/failure message is displayed at the top of the MD-115: Attachments page as seen in **Exhibit 20**.

**Exhibit 20. MD-115 Report Submission Success/Failure Message**

Select **Print** to print a copy of the completed form for your records.

**Important:** This is your only opportunity to print the completed form.

Once the form has printed, select **Exit**. A new, blank Contact Information page is displayed.

If you do not want to print a copy of the form, select **Cancel**. A new, blank Contact Information page is displayed.
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