



MD-115 Reports User Guide



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Overview

MD-115 Report

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.

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, 85 and 1D.

Rule 41 in the *Field Manual of AAR Interchange Rules* establishes the minimum mechanical requirements for removing defective wheels. 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 877-724-542.

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 <https://public.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-115 Reports Applicable Permissions

The screenshot displays the 'MD Reports' access request page. At the top, it says 'MD Reports' and 'Mechanical Defect Reporter'. Below this is a progress bar with three steps: '1 Select Roles', '2 Confirm', and '3 Done'. The '1 Select Roles' step is active. It contains two role selection options, each with a checkbox and a '(MARK required)' label: 'MD-115 Manufacturer' and 'MD-115 Reporter'. Below these is a 'Comments...' text area. At the bottom right, there are 'Return' and 'Next' buttons. A small '0/255' character limit indicator is visible near the 'Next' button.

MD-115 User Roles

Your assigned user role determines what functions you can perform. User roles are assigned by Railinc or by your company administrator through the Single Sign-On interface.

The following user roles can be assigned to users of MD-115 Reports, with the subsequently listed functions:

MD-115 Manufacturer - User can search and view manufactured parts from their company. This permission is approved by the MD Reports company admin.

- Search Reports
- View Reports

MD-115 Reporter - User can submit MD-115 forms on behalf of a company (reporter mark). This permission is approved by the MD Reports company admin.

- Submit Reports
- Search Reports
- View Reports
- Edit Reports
- Upload Images to Reports
- Save Draft
- View (your own) Drafts
- Update Draft
- Delete Reports

MD-115 Report Reviewer - User can view and edit MD-115 reports belonging to his/her company (reporter mark).

- Search Reports
- View Reports
- Edit Reports
- Upload Images to Reports

MD-115 Report Viewer - User (WABL members) can view all submitted MD-115 reports.

- Search Reports
- View Reports

MD-115 Report Editor - User (MxV) can edit all submitted MD-115 reports.

- Search Reports
- View Reports
- Edit Reports
- Save Draft
- View Drafts
- Update Draft
- Delete Reports

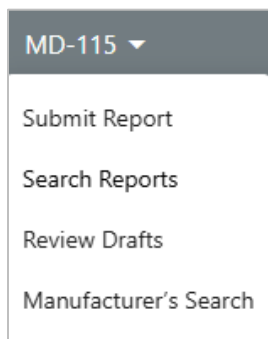
Logging In

To log into the MD Reports:

1. Open your internet browser and enter <https://public.railinc.com> to open the Railinc website.
2. Select the **Customer Login** link in the upper right of the page. The Account Access page is displayed.
3. Enter your **User ID** and **Password**. Select **Sign In**. The Railinc Launch Pad is displayed.
4. In **My Applications**, select **MD Reports**.
5. 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-115 Reports Menu

Exhibit 2. MD-115 Menu



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.

MD-115 Report

Submit Report

You must be assigned to the MD-115 Reporter role to submit MD-115 Reports.

Use the following procedure to complete Form MD-115:

1. Log into the MD Reports as described in [Logging In](#). The MD Reports Home page is displayed (Exhibit 2).
2. From the menu bar, select **MD-115 > Submit Report**. The Submit MD-115 Report page is displayed.

Exhibit 3. Submit MD-115 Report

Defect Report Sections

- Reporter Contact
- Equipment Details
- Wheel Set Details
- Hub Stamp 1
- Hub Stamp 2
- Hub Stamp 3
- Locking Tab
- Brake/Defect Details
- Attachments
- Repair Key (Optional)

Submit MD-115 Defect Report

* Indicates Required Field

This report is to cover wheels which are removed for defects, represented by the following WHY MADE CODES 66, 68, 69, 71, 83, 85, and 1D. See AAR Field Manual Rule 41.
All items should be completed. If numbers or letters are illegible, use 'XX' where applicable.

For MD-115 related comments or questions, please email WABL@aar.com.

Reporter Contact Information

John Smith
 9196515000
 john.smith@railinc.com

Cary
 NC
 USA

Equipment Details

☐ Side of Equipment * Left
 ☐ Right

☐ Loaded/Empty Status
 ☐ Loaded
 ☐ Empty
 ☐ Unknown

Wheel Set Details

1 If wheel is discolored, per FRA 215 103(h), record number of inches of discoloration. If discoloration is not available, please enter XX.

Hub Stamp 1

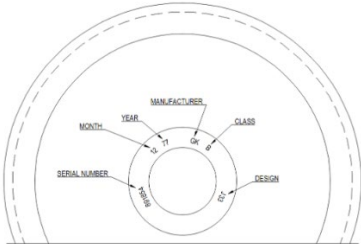
Wheel Mount Date *

Wheel Shop Mark *

Wheel Type *

Wheel Diameter *

Class of Heat Treat...



Defective Wheel

Wheel Serial Number *

Manufactured Date *

Wheel Design Designation *

Wheel Manufacturer *

Mate Wheel

Wheel Serial Number *

Manufactured Date *

Wheel Design Designation *

Wheel Manufacturer *

Hub Stamp 2

Defective Wheel

Wheel Mount Date

Wheel Shop Mark

Mate Wheel

Wheel Mount Date

Wheel Shop Mark

Hub Stamp 3

Defective Wheel

Wheel Mount Date

Wheel Shop Mark

Mate Wheel

Wheel Mount Date

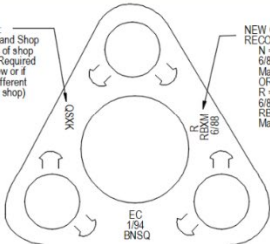
Wheel Shop Mark

Locking Tab

New / Reconditioned *

Manufactured / Reconditioned Date

Mounting Shop Mark *



MOUNTING SHOP:
QSKK = Company and Shop Identification Marks of shop mounting bearing (Required only if bearing is new or if mounting shop is different from reconditioning shop)

NEW OR RECONDITIONED and RECONDITIONING SHOP DATA:
N = NEW & 6/88 or F-88 = MONTH/YEAR Manufactured
OR
R = Reconditioned & 6/88 = MONTH/YEAR Reconditioned & RBXM = Company & Shop Identification Marks of Reconditioning Shop

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Brake/Defect Details

Brake Shoe Standard to Equip... ▾

Brake Shoe on Failed Wheel * ▾

Crack/Break in Rim, Plate, or Hub (i... ▾

Any Signs of Following on the Wheel:

Brake Rigging Misalignment

☐ Yes
 ☐ No

Body Mounted Brake

☐ Yes
 ☐ No

Stuck Brake

☐ Yes
 ☐ No

Clear Selection

Comments (including any relevant information on Mate Wheel)

Attachments

📎

It is recommended to submit at least 3 photos of the failure and 1 photo of the locking plate.
 Attachments can be no larger than 10MB in size and the number of attachments cannot exceed 5. Accepted formats include JPG, PNG, HEIC, and HEIF.

📎 Browse

No File Selected

Repair Key (Optional) ⓘ

Save Draft

Submit

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

The **Railroad/Company** field is required and must be completed to proceed.

3. Complete all required fields (marked with a red asterisk).
4. To add attachments, select **Browse** in the **Attachments** section of the Submit MD-115 Report page. It is recommended that you add at least 3 pictures of the failure and one picture of the locking plate. You can attach up to 5 files.
 - a. Attach files in the following formats: .JPG, .PNG, .HEIC, HEIF. There is a 10 MB size limit for each individual image.
 - b. Select **Delete** to remove an attached file from the form.
 - c. The recommended attachments are requested but are not required to submit Form MD-115.

Exhibit 4. MD-115 Attachment

Attachments

It is recommended to submit at least 3 photos of the failure and 1 photo of the locking plate.

Attachments can be no larger than 10MB in size and the number of attachments cannot exceed 5. Accepted formats include JPG, PNG, HEIC, and HEIF.

File No.	File Name	File Size	Action
1	P9010006.PNG	13.07 KB	Delete

Browse

5. When you have completed the form, click **Submit**. A submission success/failure message is displayed.

Exhibit 5. MD-115 Successful Submission



Search Reports

To search MD-115, you must be assigned to one or more of these roles: the MD-115 Reporter, MD-115 Report Reviewer, MD-115 Report Viewer or MD-115 Report Editor.

Use the following procedure to search for MD-115 Reports:

1. Log into the MD Reports as described in [Logging In](#). The MD Reports Home page is displayed ([Exhibit 2](#)).
2. From the menu bar, select **MD-115 > Search Reports**. The **Search MD-115 Reports** page is displayed.
3. Enter your search criteria. For example, select a defect type from the **Defect Type** drop-down field and click **Search**.

Exhibit 6. Search MD-115 Reports

The screenshot shows the 'MD-115 Search Reports' form. It features a title bar with the text 'MD-115 Search Reports' and a close button. Below the title bar is a large text input field for 'Equipment IDs'. Underneath this are three input fields: 'Reporter Mark', 'Wheel Serial Number', and 'Repair Key'. Following these are two rows of fields: the first row has a dropdown for 'Why Made Code (WMC)' and a date field for 'Created Date'; the second row has a dropdown for 'Wheel Manufacturer' and a date field for 'Repair Date'. The third row contains three fields: a dropdown for 'Wheel Diameter', a dropdown for 'Wheel Design Designation', and a date field for 'Failure Date'. The fourth row has a dropdown for 'Heat Class Code' and a date field for 'Manufactured Date'. At the bottom of the form, there is a checkbox labeled 'Show Only Defects with Augmented Data'. To the right of the checkbox are two buttons: 'Reset' and 'Search'.

4. A Search Results example is displayed in the image below.

Exhibit 7. MD-115 Search Results

MD-115 Search Reports

Search Results

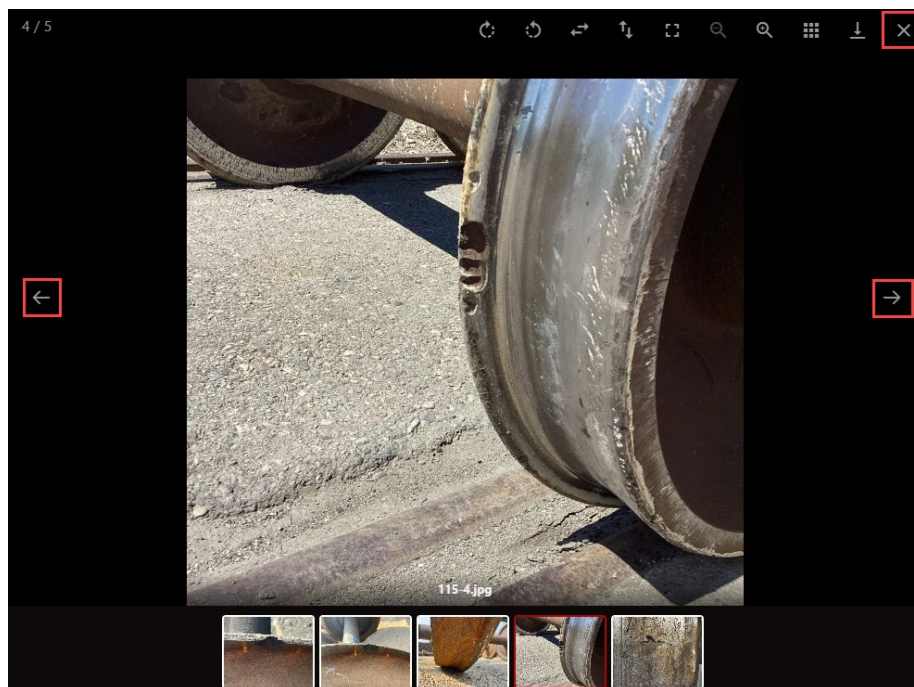
6,695 Results

Export to CSV Export to PDF

Equipment ID	Equipment Type	Journal Size	WMC	Wheel Serial Number	Manufacturer	Manufactured Date	Wheel Design Designation	Attachments
RAIL2281	Box Car	5.5 X 10	83	XXXXXXXX	A	01-2008	E	
RAIL2281	Gondola	6 X 11	68	123	A	XX-XXXX	CA	
RAIL45563	Tank Car	6.5 X 12	83	2372334	BW	01-2025	CC	5
RAIL32323	Tank Car	7 X 9	83	23443	BV	05-2021	CE	5
SMW734613	Flat Car	5.5 X 10	66	11	SW	11-2011	CF	1
RAIL2387	Hopper	6 X 11	69	23434	B	01-2025	CJ	5
RAIL4838	Tank Car	6.5 X 9	71	24324	B	01-2025	CA	
RAIL578	Gondola	6 X 11	69	46545	B	01-2025	CG	4
RAIL42525	Tank Car	6 X 11	71	1225	AW	01-2025	CAX	5
SOO117941	Covered Hopper	5.5 X 10	66	11	GT	04-2018	CF	
RAIL123456	Box Car	5.5 X 10	66	45	FW	01-2025	CF	
RAIL77	Covered Hopper	6 X 11	69	154458	AW	01-2025	CJ	
CP334046	Gondola	5.5 X 10	66	11	GT	08-2016	CF	1
SOO601687	Flat Car	5.5 X 10	69	32	SW	01-2020	CF	
TCMX312250	Covered Hopper	6.5 X 9	66	12345	GC	09-2020	CJ	1

10 25 50 100

- To view the file attachments, select the numbered link in the **Attachments** column where available for the appropriate row. The number represents the amount of attachments for the report. The attachments open in the table view. Click on an attachment to use the image carousel view ([Exhibit 8](#)). Use the X in the top right to close both views.

Exhibit 8. Carousel View of Attachments

- To view a report, select the **Equipment ID** link for the appropriate row located in the **Equipment ID** column.

Edit Reports

To edit MD-115 Reports, you must be assigned to one or more of these roles: the MD-115 Reporter, MD-115 Report Reviewer or MD-115 Report Editor.

Use the following procedure to edit MD-115 Reports:

1. Log into the MD Reports as described in [Logging In](#). The MD Reports Home page is displayed ([Exhibit 2](#)).
2. From the menu bar, select **MD-115 > Search Reports**. Search for reports as described in [Search Reports](#).
3. To open a report, select the **Equipment ID** link for the appropriate row located in the **Equipment ID** column.
4. Scroll to the bottom of the report and select **Edit**.

Exhibit 9. MD-115 View Button Panel



5. The Update MD-115 Report page displays. All fields are editable except for **Repair Key**.
6. Edit the necessary fields, then scroll to the bottom of the report and select **Submit**.

Exhibit 10. MD-115 Update Button Panel



7. A submission successful message is displayed.

Exhibit 11. Update Successful Message



Review Drafts

To review MD-115 draft reports, you must be assigned to the MD-115 Reporter or MD-115 Editor role for the company mark.

Use the following procedure to review MD-115 draft reports:

1. Log into the MD Reports as described in [Logging In](#). The MD Reports Home page is displayed ([Exhibit 2](#)).
2. From the menu bar, select **MD-115 > Review Drafts**. Available draft reports for your company mark are listed on the **Review Drafts** page.
3. To open a report, select the **Equipment ID** link for the appropriate row located in the **Equipment ID** column.

Exhibit 12. View Drafts

Review Drafts						
1 Result						
Equipment ID	Reporter	Side of Equipment	Axle Location	Failure Date	Modified Date	Created Date
RAIL1324	REPORTER	Left	5	12-03-2025	12-03-2025	12-03-2025

4. Scroll to the bottom of the report and click the **Edit** button ([Exhibit 9](#)). See [Edit Reports](#) for details.
5. Once you've made your updates to the draft, select **Save Draft** to save your draft or **Submit** to submit the report ([Exhibit 13](#)). Once the report is submitted, the **Save Draft** button is no longer available when viewing the report.

Exhibit 13. Edit Draft Button Panel

✕ Cancel
💾 Save Draft
✓ Submit

Delete Reports

You must be assigned to the MD-115 Report Editor role to perform delete functions in MD-115 Reports.

Use the following procedure to delete MD-115 Reports:

1. Log into the MD Reports as described in [Logging In](#). The MD Reports Home page is displayed ([Exhibit 2](#)).
2. From the menu bar, select **MD-115 > Search Reports**. Search for reports as described in [Search Reports](#).
3. To open a report, select the **Equipment ID** link for the appropriate row located in the **Equipment ID** column.
4. Scroll to the bottom of the report and select the **Delete** button ([Exhibit 9](#)).
5. A **Delete Confirmation** pop-up box appears. Select **Delete** to delete the report or **Cancel** to cancel.

Exhibit 14. MD-115 Delete Confirmation

Delete Confirmation

You have requested to delete this MD-115 Report. Are you sure you want to proceed?

 Cancel

 Delete

6. If you select **Delete**, a message appears to indicate the report has been successfully deleted.

Exhibit 15. Delete Successful Message



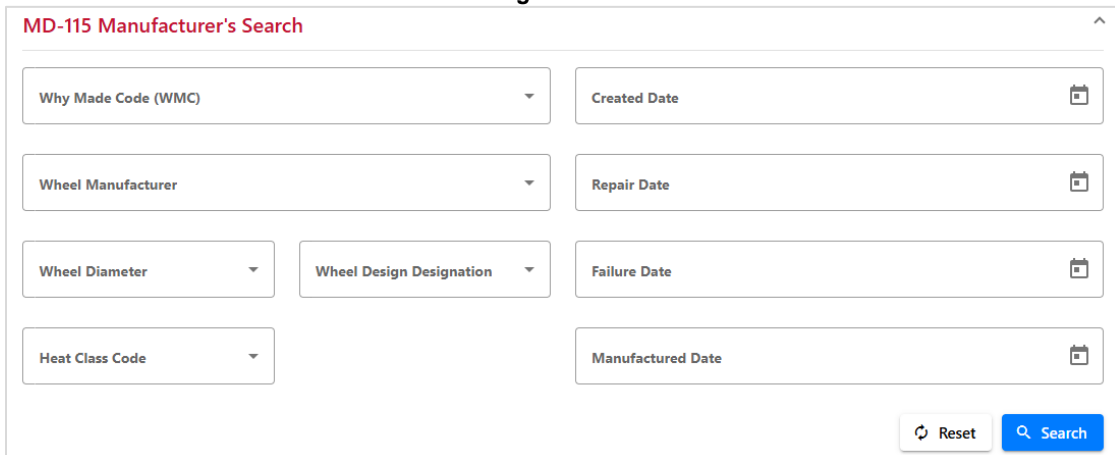
Manufacturer's Search Page

To use the Manufacturer's search, you must be assigned to the MD-115 Manufacturer role.

Use the following procedure to search for MD-115 Reports:

1. Log into the MD Reports as described in [Logging In](#). The MD Reports Home page is displayed ([Exhibit 2](#)).
2. From the menu bar, select **MD-115 > Manufacturer's Search Page**. The **Manufacturer's Search** is displayed.
3. Enter your search criteria. For example, select a Why Made Code from the **Why Made Code (WMC)** drop-down list and click **Search**.

Exhibit 16. MD-115 Manufacturer's Search Page



4. The Search returns data for all MD-115 parts from your company for the selected Defect Type.
5. To view the details of a part, select the **View** link located in the **Details** column of the Search Results. Select the **Back to Search** button to return to the search results.
6. Select **Export to CSV** to export the results list to a file.

Exhibit 17. Manufacturer's Search Results

MD-115 Manufacturer's Search							
Search Results							
1,584 Results						Export to CSV	
Details	Created Date ▾	Wheel Manufacturer ▾	Wheel Diameter ▾	Wheel Design Code ▾	Heat Class Code ▾	WMC ▾	Manufactured Date ▾
View		SW	36	H	C	68	10-2004
View		SW	36	H	C	83	09-1991
View		SW	36	H	C	68	06-1994
View		SW	36	H	C	83	08-2003
View		SW	36	H	C	83	08-2003
View		SW	33	CJ	C	68	02-2007
View		SW	38	B	C	68	08-2009
View		SW	36	H	C	83	10-2002
View		SW	33	J	C	68	12-2006
View		SW	36	H	C	68	04-2003
View		SW	38	B	C	68	04-2010
View		SW	36	H	C	68	08-1999
View		SW	36	H	C	68	12-2007
View		SW	36	J	C	66	05-2004
View		SW	36	H	C	83	08-2003
View		SW	36	H	C	83	08-2003
View		SW	33	J	C	68	05-1995