



MD-11 Reports User Guide



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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.

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).

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-11 Reports Applicable Permissions

The screenshot shows the 'MD Reports' access request form. 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 five roles, each with a checkbox and a description: 'MD-11 External Inspector (MARK required)', 'MD-11 Internal Inspector (MARK required)', 'MD-11 Manufacturer/Reconditioner (MARK required)', 'MD-11 Private Car Owner (MARK required)', and 'MD-11 Reporter (MARK required)'. Below the roles is a 'Comments...' field. At the bottom right, there are 'Return' and 'Next' buttons, and a '0/255' character count.

MD Reports
Mechanical Defect Reporter

1 Select Roles 2 Confirm 3 Done

☐ MD-11 External Inspector (MARK required)
User responsible to submit external inspections for MD-11 reports on behalf of a Railroad (performer road). The permission is approved by their given company admins.

☐ MD-11 Internal Inspector (MARK required)
User responsible to submit internal inspections for MD-11 reports on behalf of a Railroad (performer road). The permission is approved by their given company admins.

☐ MD-11 Manufacturer/Reconditioner (MARK required)
MD-11 Manufacturer/Reconditioner

☐ MD-11 Private Car Owner (MARK required)
MD-11 Private Car Owner

☐ MD-11 Reporter (MARK required)
User responsible for submitting MD-11 forms

Comments...

Return Next 0/255

MD-11 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-11 Reports, with the subsequently listed functions:

MD-11 Reporter - User can submit MD-11 forms on behalf of a Railroad (detector owner). This permission is approved by the Railroad MD Reports company admins.

- Submit Reports
- Search Reports
- Save Drafts
- Review Drafts
- View Reports
- Edit Reports
- Delete Reports

MD-11 Manufacturer/Reconditioner - Manufacturers can search and view parts that are manufactured by their company. Reconditioners can search and view parts that are reconditioned by their company. This permission is approved by the Railroad MD Reports company admins.

- Search Reports
- View Reports

MD-11 External Inspector – User can submit external inspections for MD-11 reports on behalf of a Railroad (performer road). This permission is approved by the Railroad MD Reports company admins.

- Download External Inspector CSV
- Upload External Inspector CSV

MD-11 Internal Inspector - User can submit internal inspections for MD-11 reports on behalf of a Railroad (performer road). This permission is approved by the Railroad MD Reports company admins.

- Download Internal Inspector CSV
- Upload Internal Inspector CSV

MD-11 Private Car Owner - User can view all reports for cars with your company MARK that have been submitted to our system.

- Search Reports
- View Reports

MD-11 Report Reviewer - User can view and edit MD-11 reports belonging to your company (performer mark).

- Search Reports
- View Reports

- Edit Reports

MD-11 Report Editor - User (MxV) can edit all submitted MD-11 reports.

- Search Reports
- View Reports
- Edit Reports
- Delete Reports

MD-11 Report Viewer - User (WABL members) can view all submitted MD-11 reports.

- Search Reports
- View Reports

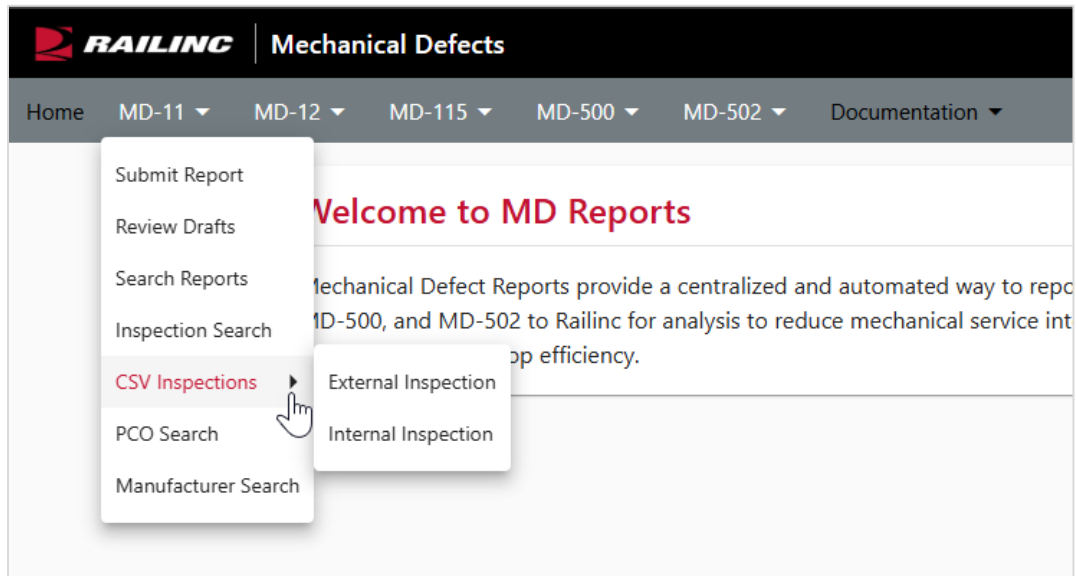
Logging In

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. Menu items may vary depending on your roles and permissions. [Exhibit 2](#) shows the menu items that support MD-11 Reports functionality.

MD Reports Menu

Exhibit 2. MD -11 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-11 Report

Submit MD-11 Report

You must be assigned to the MD-11 Reporter role to save drafts and submit MD-11 Reports.

Use the following procedure to complete Form MD-11:

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-11 > Submit Report**. The Submit MD-11 Defect Report page is displayed:

Exhibit 3. Submit MD-11 Defect Report

Defect Report Sections

Reporter Contact

Performing Road

Equipment Details

Bearing/Axle Inspection

Repair Key (Optional)

Submit MD-11 Defect Report * Indicates Required Field

This report is to cover bearings removed on account of WHY MADE CODES 50, 51, 52, 91, and 95. See AAR Field Manual Rule 36.
At the completion of the form, a Unique Identifier will be supplied for application to the failed bearing cup per Rule 36.

For MD-11 related comments or questions, please email WABL@aar.com.

Reporter Contact Information

Name *
John Smith

Phone Number *
9196515000

Email *
john.smith@railinc.com

City *
Cary

State/Province *
NC

Country *
USA

Railroad/Company *

Performing Road

Performer Mark *

Equipment Details

Equipment Initial *

Equipment Number *

Equipment Type *

Failure Date

Repair Date *

Derailment * ☐ Yes ☐ No

Bearing/Axle Inspection Information

Side of Equipment * ☐ Left ☐ Right

Axle Position *

Method of Detection

Adapter Condition *

Adapter Pad Condition *

Elastomeric Adapter Pad *

Bearing Size *

Journal Burn Off * ☐ Yes ☐ No

Wheel Serial Number *
Unknown / Missing / Illegible

Why Made Code * ☐ 50 ☐ 51 ☐ 52 ☐ 91 ☐ 95

Repair Key (Optional)

Save Draft
Submit

3. Use the menu on the left to jump to the various sections of the page.

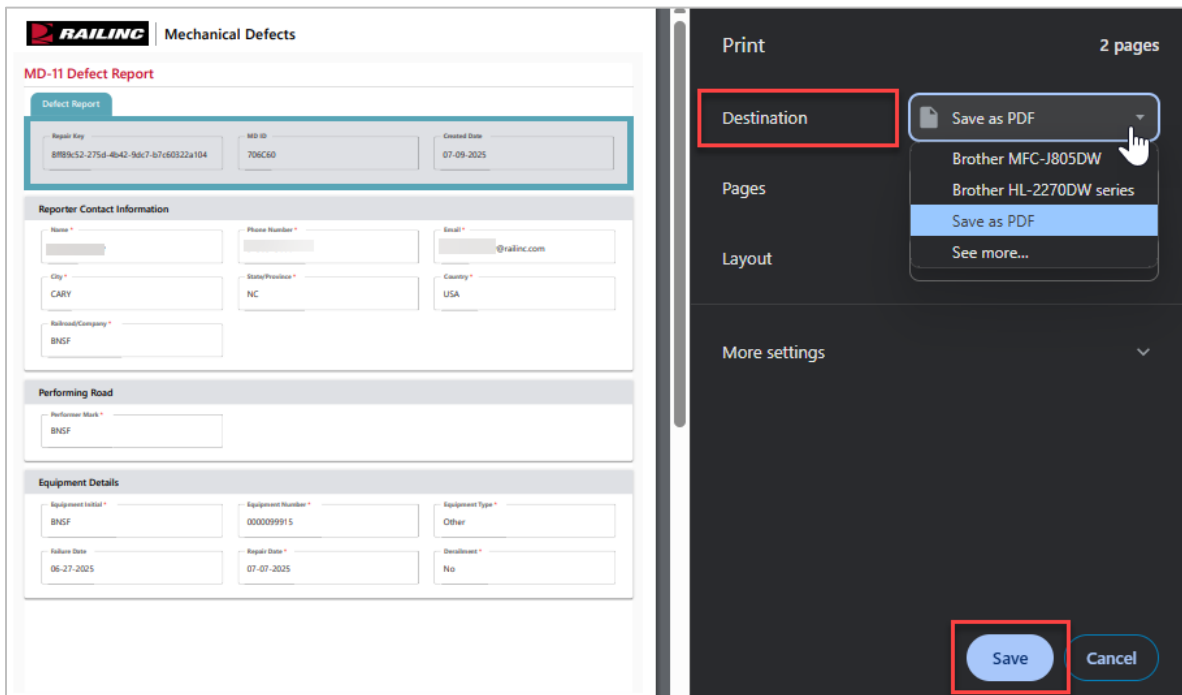
4. **Reporter Contact Information** on this page is prepopulated based on information in your SSO profile. Changing your contact information for this report does not change the information in your SSO profile.
5. The **Railroad/Company** field is not prepopulated with your MARK/Company ID and must be completed to proceed.
6. The Repair Key (Optional) is a unique identifier for this report that you can assign. Or leave it blank and the system will automatically generate it.
7. Save the form as draft by clicking the **Save Draft** button. The draft is kept for 7 days. Reporters have the ability to save, view and edit drafts. See [Review Drafts](#) for details.
8. Complete all required fields marked with a red asterisk on the Submit MD-11 Defect Report page. When you have completed the form, select **Submit**. A submission success/failure message is displayed.

Exhibit 4. Successful Submission Message



9. Scroll to the bottom and select **Print** to print or save a copy of the completed form as a PDF for your records. For **Destination**, choose a printer or **Save as PDF** and select **Save**.

Exhibit 5. Print/Save Report



The screenshot shows the RAILINC Mechanical Defects MD-11 Defect Report form on the left and a print/save overlay on the right.

Form Fields:

- Defect Report:** Repair Key (8f89c52-275d-4b42-9dc7-b7c60322a104), MD ID (706C60), Created Date (07-09-2025).
- Reporter Contact Information:** Name, Phone Number, Email (@railinc.com), City (CARY), State/Province (NC), Country (USA), Railroad/Company (BNSF).
- Performing Road:** Performer Mark (BNSF).
- Equipment Details:** Equipment Initial (BNSF), Equipment Number (0000099915), Equipment Type (Other), Rollout Date (06-27-2025), Repair Date (07-07-2025), Recurrence (No).

Print/Save Overlay:

- Print (2 pages)
- Destination (highlighted with a red box)
- Pages
- Layout
- More settings (dropdown arrow)
- Save as PDF (dropdown menu open, showing options: Brother MFC-J805DW, Brother HL-2270DW series, Save as PDF (highlighted), See more...)
- Save (highlighted with a red box)
- Cancel

Exhibit 6. Defect Report View After Submission

MD-11 Defect Report

Defect Report

Repair Key 8ff89c52-275d-4b42-9dc7-b7c60322a1	MD ID 706C60	Created Date 07-09-2025
--	-----------------	----------------------------

Reporter Contact Information

Name *	Phone Number *	Email *
--------	----------------	---------

10. Verify the report has been assigned auto-generated **Repair Key** and **MD ID**, located at the top of the report view, respectively. The MD ID is generated using the Car Initial/Car Number/Axle Position/Side of Equipment/Repair Date combined. For more details about the MD ID algorithm, see the note below and the [MD-11 Specifications Document](#).

Note: The MD ID algorithm approved by the TAG follows these standards for all roads:

- The system will generate a unique MD ID for Car Initial/Car Number/Axle Position/Side of Equipment/Repair Date combination
- Characters permitted: 0,1,2,3,4,5,6,7,9, A, B, C, D, E, F, H, J, K, M, P, Q, R, T, U, W, X, Y
- Validation has been added to prevent the use of these letters: I, S, G, O
- MD ID is 6 characters in length, preceded by a zero when 5 characters
- Current and previously generated MD IDs are not affected by the updated algorithm

Review Drafts

To review MD-11 draft reports, you must be assigned to the MD-11 Reporter role for the company mark.

Use the following procedure to review MD-11 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-11 > Review Drafts**. Available draft reports for your company mark are listed on the **Review Drafts** page.
3. To open a report, click the **Equipment ID** link for the appropriate row located in the Equipment ID column.

Exhibit 7. Review Drafts

Review Drafts							
1 Result							
Equipment ID ▾	MD ID ▾	Reporter ▾	Performer ▾	WMC ▾	Repair Date ▾	Modified Date ▾	Created Date ▾
BNSF287074	BWCR0A		BNSF		07-07-2025	07-09-2025	07-09-2025

4. Scroll to the bottom of the report and select the **Edit** button. See [Edit MD-11 Reports](#) for details.

Exhibit 8. View Button Panel

[← Back To Drafts](#)
[Print](#)
[Edit](#)
[Delete](#)

- Once you've made your updates, select **Save Draft** to save your draft or **Submit** to submit the report. Once the report is submitted, the **Save Draft** button is no longer available when viewing the report.

Search MD-11 Reports

You must be assigned to one or more of the following roles to perform search functions in MD-11 Reports: MD-11 Reporter, MD-11 Report Reviewer, MD-11 Report Editor or MD-11 Report Viewer.

Use the following procedure to search for MD-11 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-11 > Search Reports**.

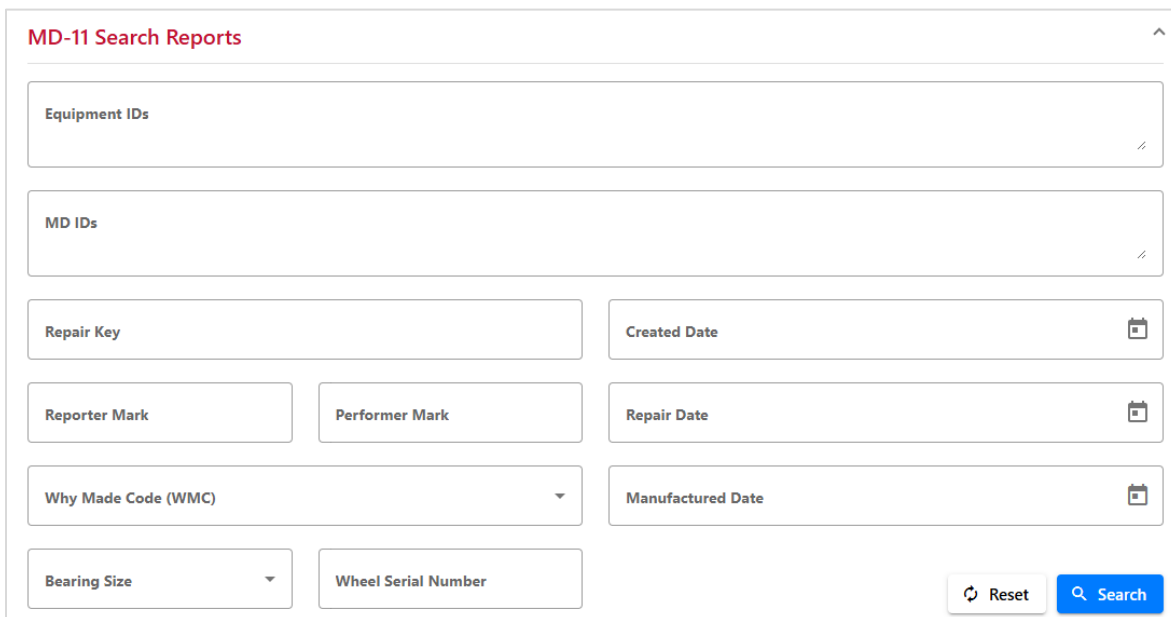
Exhibit 9. MD-11 Search Reports Menu Item



The screenshot shows the top navigation bar of the RAILINC website. The header includes the RAILINC logo and the text "Mechanical Defects". Below the header is a navigation menu with links for "Home", "MD-11", "MD-12", and "MD-115". The "MD-11" link is highlighted with a mouse cursor, and a dropdown menu is visible below it, containing the text "Search Reports".

3. Enter your search criteria. For example, select a Why Made Code from the **Why Made Code** drop-down list and click **Search**. The Search Results returns with all MD-11 reports for the given Why Made Code.

Exhibit 10. MD-11 Search Reports

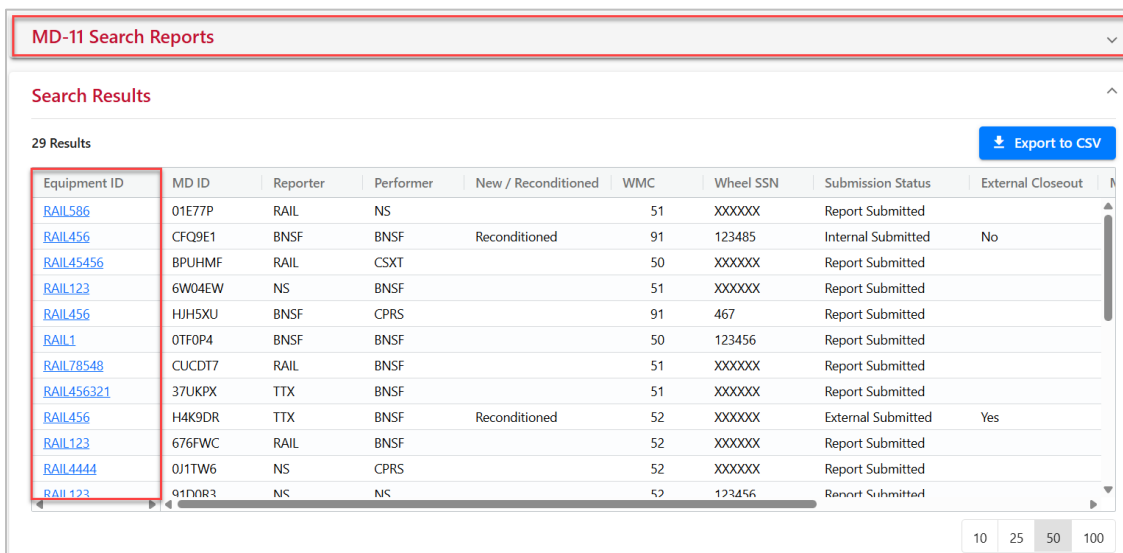


The form is titled "MD-11 Search Reports" and contains several input fields for searching reports. The fields are arranged in a grid-like fashion. At the bottom right, there are "Reset" and "Search" buttons.

Equipment IDs		
MD IDs		
Repair Key	Created Date	
Reporter Mark	Performer Mark	Repair Date
Why Made Code (WMC)	Manufactured Date	
Bearing Size	Wheel Serial Number	

4. To view a report, select a report link in the **Equipment ID** column of the Search Results.
5. Select **Export to CSV** to export the results list to a file.

Exhibit 11. MD-11 Search Results



The table displays search results for MD-11 reports. It includes a header row with columns: Equipment ID, MD ID, Reporter, Performer, New / Reconditioned, WMC, Wheel SSN, Submission Status, and External Closeout. The table shows 29 results. A red box highlights the first 10 rows of the table. A blue button labeled "Export to CSV" is located at the top right of the table.

Equipment ID	MD ID	Reporter	Performer	New / Reconditioned	WMC	Wheel SSN	Submission Status	External Closeout
RAIL586	01E77P	RAIL	NS		51	XXXXXX	Report Submitted	
RAIL456	CFQ9E1	BNSF	BNSF	Reconditioned	91	123485	Internal Submitted	No
RAIL45456	BPUHMF	RAIL	CSXT		50	XXXXXX	Report Submitted	
RAIL123	6W04EW	NS	BNSF		51	XXXXXX	Report Submitted	
RAIL456	HJH5XU	BNSF	CPRS		91	467	Report Submitted	
RAIL1	0TF0P4	BNSF	BNSF		50	123456	Report Submitted	
RAIL78548	CUCDT7	RAIL	BNSF		51	XXXXXX	Report Submitted	
RAIL456321	37UKPX	TTX	BNSF		51	XXXXXX	Report Submitted	
RAIL456	H4K9DR	TTX	BNSF	Reconditioned	52	XXXXXX	External Submitted	Yes
RAIL123	676FWC	RAIL	BNSF		52	XXXXXX	Report Submitted	
RAIL4444	0J1TW6	NS	CPRS		52	XXXXXX	Report Submitted	
RAIL123	91FVR3	NS	NS		52	123456	Report Submitted	

6. Select the top portion of the page to show the search criteria to submit a new search.

Edit MD-11 Reports

You must be assigned to one or more of the following roles to perform edit functions in MD-11 Reports: MD-11 Reporter, MD-11 Report Reviewer or MD-11 Report Editor.

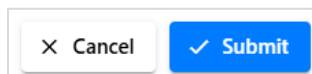
1. Log into the MD Reports as described in [Logging In](#). The MD Reports Home page is displayed ([Exhibit 2](#)).
2. From the menu bar, select **MD-11 > Search Reports**. Search reports as described in [Search MD-11 Reports](#).
3. To edit a report, select the appropriate report link in the **Equipment ID** column of the Search Results ([Exhibit 11](#)).
4. Scroll to the bottom of the report and select the **Edit** button.

Exhibit 12. Edit/Delete Button Panel



5. The Edit MD-11 Defect Report page is displayed. All fields are editable except for **Railroad/Company** (Railroad Mark), **Repair Key** and **Performer Mark**.
6. Edit the necessary fields, then scroll to the bottom of the report and select **Submit**.

Exhibit 13. Update Button Panel



7. A submission success/failure message is displayed.

Exhibit 14. Successful Update Message



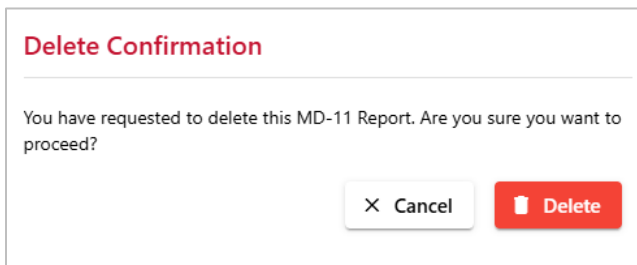
Delete MD-11 Reports

You must be assigned to the MD-11 Reporter and/or MD-11 Report Editor to perform delete functions in MD-11 Reports.

Use the following procedure to delete MD-11 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-11 > Search Reports**. Search reports as described in [Search MD-11 Reports](#).
3. To delete a report, select the appropriate report link in the **Equipment ID** column of the Search Results ([Exhibit 11](#)).
4. Scroll to the bottom of the report and select **Delete** ([Exhibit 12](#)).
5. A **Delete Confirmation** pop-up box appears. Select **Delete** to delete the report or **Cancel** to cancel.

Exhibit 15. Delete Confirmation



6. If you select **Delete**, a successful delete message is displayed.

Exhibit 16. Successful Delete Message



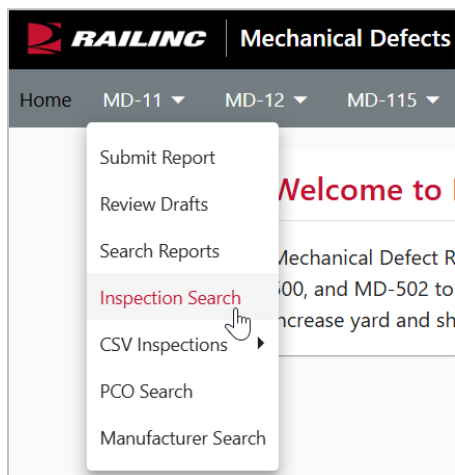
External/Internal Inspection

MD Reports allows users to submit a single external or internal inspection.

Use the following procedure to download reports for external inspection for MD-11 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-11 > Inspection Search**.

Exhibit 17. MD-11 External/Internal Inspection Search Menu Item



3. Search MD-11 Reports for external/internal inspections displays. Enter your search criteria and click **Search**.

Exhibit 18. Search External/Internal Reports

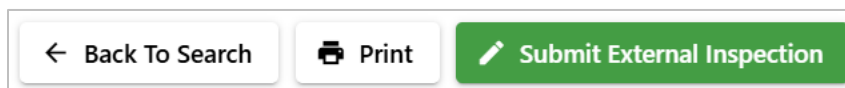
A screenshot of the 'Search External/Internal Reports' form. The form has a title bar with the text 'Search External/Internal Reports' and a close icon. Below the title bar are several input fields: 'Equipment IDs', 'MD IDs', 'Repair Key', 'Created Date' (with a calendar icon), 'Reporter Mark', 'Performer Mark', 'Repair Date' (with a calendar icon), 'Why Made Code (WMC)' (a dropdown menu), 'Manufactured Date' (with a calendar icon), 'Bearing Size' (a dropdown menu), and 'Wheel Serial Number'. At the bottom right of the form are two buttons: 'Reset' and 'Search'.

4. All report types appear in the search results, including initial submitted reports and external and internal submitted reports, and drafts of external and internal reports. These types can be identified in the **Submission Status** column.
5. Select the top portion of the page to show/change the search criteria.
6. To view a report, select the **Equipment ID** link located in the **Equipment ID** column of the Search Results for the report you want to update.
7. For External Inspections, open a report that was initially submitted (shown in the **Submission Status** column as **Report Submitted**) by clicking on the **Equipment ID**. This report can be edited, saved as draft and submitted for external inspection.

Exhibit 19. Search Results with Report Submitted Examples

Search External/Internal Reports								
Search Results								
29 Results							Export to CSV	
Equipment ID	MD ID	Reporter	Performer	New / Reconditioned	WMC	Wheel SSN	Submission Status ↑	External Closeout
RAIL1234	5S6FKQ	RAIL	RAIL		51	12344	Report Submitted	
RAIL1234	5S6FKQ	RAIL	RAIL		51	12344	Report Submitted	
RAIL7901	HKDXUE	RAIL	BNSF		91	425R25R2	Report Submitted	
RAIL12345	711RA6	RAIL	MRL		91	XXXXXX	Report Submitted	
RAIL44444	439Y3P	TTX	BNSF		51	XXXXXX	Report Submitted	
RAIL123	91D0R3	NS	NS		52	123456	Report Submitted	
RAIL4444	0J1TW6	NS	CPRS		52	XXXXXX	Report Submitted	
RAIL123	676FWC	RAIL	BNSF		52	XXXXXX	Report Submitted	
RAIL456321	37UKPX	TTX	BNSF		51	XXXXXX	Report Submitted	
RAIL78548	CUCDT7	RAIL	BNSF		51	XXXXXX	Report Submitted	
RAIL1	0TF0P4	BNSF	BNSF		50	123456	Report Submitted	
RAIL456	HJH5XU	BNSF	CPRS		91	467	Report Submitted	

- a. From the view page, scroll to the bottom to select the **Submit External Inspection** button at the bottom of the report.

Exhibit 20. Reports View Button Panel

- b. Complete all required fields marked with a red asterisk for the **External Inspection Sections** of the page. Refer to the [MD-11 Specifications Document](#) for field formats and values.
- c. When **External Inspection Closeout** is **Yes** in the **General Information**, the required fields are automatically added in the **Failure Progression Mode** section.

Exhibit 21. External Inspection Data

Defect Report Sections

- Reporter Contact
- Performing Road
- Equipment Details
- Bearing/Axle Inspection

External Inspection Sections

- Reporter Contact
- General Information**
- Failure Progression Mode
- Defective Bearing
- Wheel Inspection
- Mate Bearing

General Information

External Inspection Date

External Inspector Closeout *

Failure Progression Mode

Failure Progression Mode *

Failure Progression Mode Detail

Failure Progression Mode Alternat...

Failure Progression Mode Alternate Det...

Defective Bearing

Bearing CID

Bearing Manufacturer

Manufactured Date *

- d. Once all appropriate fields have been entered, select **Save Draft** to save as draft or **Submit** to submit the inspection.

Exhibit 22. External Inspection Data Button Panel

- e. When a submission is not successful, error messages display at the top of the page to provide specific instructions on the fields that need to be fixed. Make the updates and select **Submit**.

Exhibit 23. Error Message Examples

Defect Report Sections

- Reporter Contact
- Performing Road
- Equipment Details
- Bearing/Axle Inspection

External Inspection Sections

- Reporter Contact

Mounting Facility Code is a required field and must be 2-9 characters. If unavailable enter capital letters XXXXXX. For External Inspector closeout = 'Y', X is not a permissible value.

Bearing Condition is a required field and valid values are : BO(Burnt Off), DS(Destroyed), CR(Crack Broken), SZ(Seized), TR(Internal Damage), OK(Okay)

Edit MD-11 Defect Report * Indicates Required Field

Defect Report **External Inspection**

Repair Key

MD ID

- f. When a submission is successful, the successful update message is displayed

Exhibit 24. Successful Update Message

8. For Internal Inspections, choose a report that was externally submitted (shown in the **Submission Status** column as **External Submitted**) with no external closeout (**External Closeout = No**). This report can be edited, saved as draft and submitted for internal inspection.

Exhibit 25. Search Results with External Submitted Examples

Search External/Internal Reports								
Search Results								
29 Results						Export to CSV		
Equipment ID	MD ID	Reporter	Performer	New / Reconditioned	WMC	Wheel SSN	Submission Status ↑	External Closeout
RAIL654	A48HQP	BNSF	BNSF	New	52	XXXXXX	External Submitted	No
RAIL1201	J5443M	BNSF	BNSF	New	91	XXXXXX	External Submitted	No
RAIL432156	9EME06	BNSF	BNSF	Reconditioned	51	XXXXXX	External Submitted	No
RAIL456	H4K9DR	TTX	BNSF	Reconditioned	52	XXXXXX	External Submitted	Yes
RAIL1	91WM67	RAIL	NS	New	51	XXXXXX	Internal Submitted	No
RAIL44444	35BE7M	RAIL	CPRS	Reconditioned	91	XXXXXX	Internal Submitted	No

- a. From the view page, scroll to the bottom to select the **Submit Internal Inspection** button at the bottom of the report.

Exhibit 26. Reports View Button Panel

[← Back To Search](#)
[Print](#)
[Edit External Inspection](#)
[Submit Internal Inspection](#)

- b. Scroll to the **Internal Inspection Sections** and complete all required fields marked with a red asterisk. Refer to the [MD-11 Specifications Document](#) for field formats and values.

Exhibit 27. Internal Inspection Data

The screenshot shows a web form for 'Internal Inspection Data'. On the left is a sidebar with a menu. Under 'Internal Inspection Sections', 'Reporter Contact' is selected and highlighted with a red box. The main content area is divided into two sections: 'Reporter Contact Information' and 'General Information'. The 'Reporter Contact Information' section contains fields for Name (John Smith), Phone Number (9196515000), Email (john.smith@railinc.com), City (Cary), State/Province (NC), Country (USA), and Railroad/Company. The 'General Information' section contains dropdown menus for Bearing Certificate Number and Grease Quantity, and a text area for Grease Condition. At the bottom of the form is a section labeled 'Defective Cup Inspection'.

- c. Once all appropriate fields have been entered, select **Save Draft** to save as draft or **Submit** to submit the inspection.

Exhibit 28. Internal Inspection Data Button Panel

The screenshot shows a button panel with three buttons: 'Cancel' (with a close icon), 'Save Draft' (with a save icon), and 'Submit' (with a checkmark icon).

- d. When a submission is successful, the successful update message is displayed.

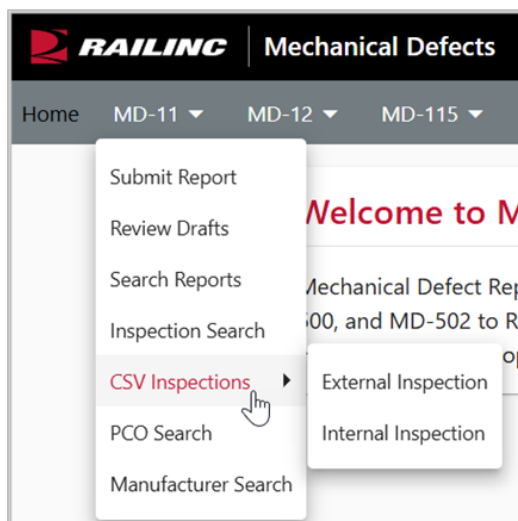
Exhibit 29. Successful Update Message



CSV Upload/Download

MD Reports allows users to download reports for external and internal inspections, and upload completed multiple external and internal inspections.

Exhibit 30. MD-11 CSV Inspections Menu Item



External Inspection

MD Inspectors must have permission for given performer road(s) to submit external inspections. To request permissions, submit your role requests at MD Reports application.

You must be assigned to the MD-11 External Inspector role to perform the following functions for MD-11 Reports.

Exhibit 31. External Inspection CSV

Submit MD-11 External Inspection CSV



- Download the CSV file of records that are ready for inspection
- Select the record you wish to submit for inspection
- Refer to the MD-11 Specification Document when entering the inspection information
- Upload the completed CSV inspection file

Download CSV

The downloaded CSV file will contain records (rows) that are ready for inspection based on the selected Performer Mark(s). Refer to the MD-11 Specification Document for field-level rules, accepted values, data formats, and field length requirements.

Select Performer Mark(s):

☒ Select All ☒ BNSF ☒ RAIL

Download

Upload CSV

Upload the completed CSV inspection file. You will receive an email with the status of your submission once the inspection file is processed. Processing time will vary based on file size.

 Browse

 No File Selected

Upload

Download Reports for External Inspection

Use the following procedure to download reports for external inspection for MD-11 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-11 > CSV Inspections > External Inspection**.
3. Select your performer mark(s) by clicking inside the checkbox(es) and click the **Download** button.
4. Open or save the CSV file to your computer. The CSV file includes all completed fields that the MD-11 Reporter has submitted and empty fields for the MD-11 External Inspector to enter.

Exhibit 32. External Inspection File Download

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Key	MDID	Created Ti	Modified Ti	Reporter N	Reporter P	Reporter C	Reporter C	Reporter S	Reporter E	Reporter M	Performer	Equipment	Equipment	Kind of Equ
2	a942b8ac-	5S6FKQ	10152018	10152018	Asset IT Su	1.919652	CARY	USA	NC	aar_it_supj	RAIL	RAIL	RAIL	00000012	F
3	92f9be6b-	5S6FKQ	09052018	09052018	Asset IT Su	1.919652	CARY	USA	NC	aar_it_supj	RAIL	RAIL	RAIL	00000012	F
4	a942b8ee-	5A7FKQ	10152018	10152018	Asset IT Su	1.919652	CARY	USA	NC	aar_it_supj	RAIL	RAIL	RAIL	00000012	F
5	92f9be6ff-	5B8FKQ	09052018	09052018	Asset IT Su	1.919652	CARY	USA	NC	aar_it_supj	RAIL	RAIL	RAIL	00000012	F
6	a942b8tgc	5C9FKQ	10152018	10152018	Asset IT Su	1.919652	CARY	USA	NC	aar_it_supj	RAIL	RAIL	RAIL	00000012	F
7	92f9beab6	5D1FKQ	09052018	09052018	Asset IT Su	1.919652	CARY	USA	NC	aar_it_supj	RAIL	RAIL	RAIL	00000012	F

5. Once the External Inspector has entered the appropriate fields, follow steps for [Upload Completed External Inspections](#). Refer to the [MD-11 Specifications Document](#) for field formats and values.

Upload Completed External Inspections

Use the following procedure to upload completed external inspections to MD-11 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-11 > CSV Inspections > External Inspection**.
3. Browse and select your completed MD-11 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:

- a. Select the column that has the long number and right-click.
 - b. Select **Format Cells > Custom** (Category).
 - c. Select **0** (Type) and select **OK**.
- Refer to the [MD-11 Specifications Document](#) for field formats and values.

Internal Inspection

MD Inspectors must have permission for given performer road(s) to submit internal inspections. To request permissions, submit your role requests at MD Reports application.

You must be assigned to the MD-11 Internal Inspector role to perform the following functions for MD-11 Reports.

Exhibit 33. Internal Inspection CSV

Submit MD-11 Internal Inspection CSV



- Download the CSV file of records that are ready for inspection
- Select the record you wish to submit for inspection
- Refer to the MD-11 Specification Document when entering the inspection information
- Upload the completed CSV inspection file

Download CSV

The downloaded CSV file will contain records (rows) that are ready for inspection based on the selected Performer Mark(s). Refer to the MD-11 Specification Document for field-level rules, accepted values, data formats, and field length requirements.

Select Performer Mark(s):

☒ Select All ☒ BNSF ☒ RAIL

[Download](#)

Upload CSV

Upload the completed CSV inspection file. You will receive an email with the status of your submission once the inspection file is processed. Processing time will vary based on file size.

[Browse](#) No File Selected

[Upload](#)

Download Reports for Internal Inspection

Use the following procedure to download reports for internal inspection from MD-11 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-11 > CSV Inspections > Internal Inspection**.
3. Select your performer mark(s) by clicking inside the checkbox(es) and select the **Download** button.
4. Open or save the CSV file to your computer. The CSV file includes all completed fields that the MD-11 Reporter has submitted and empty fields for the MD-11 Internal Inspector to enter (similar to [Exhibit 32](#)).
5. Once the Internal Inspector has entered the appropriate fields, follow steps for [Upload Completed Internal Inspections](#). Refer to the [MD-11 Specifications Document](#) for field formats and values.

Upload Completed Internal Inspections

Use the following procedure to upload completed internal inspections to MD-11 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-11 > CSV Inspections > Internal Inspection**.
3. Browse and select your completed MD-11 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:
 - a. Select the column.
 - b. Select **Format Cells > Custom** (Category).
 - c. Select **0** (Type) and click **OK**.
 - Refer to the [MD-11 Specifications Document](#) for valid field formats and values.

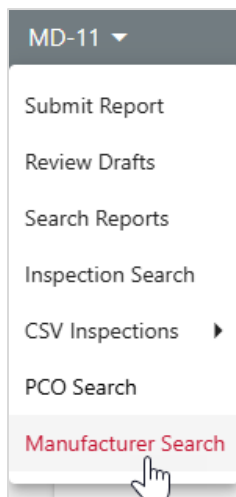
Manufacturer Search

You must be assigned to the MD-11 Manufacturer/Reconditioner role to use the Manufacturer's/Reconditioner's search function in MD-11 Reports. Manufacturers can only view parts that are manufactured by their company and Reconditioners can only view parts that are reconditioned by their company. If your company's data does not appear in the search results, contact Railinc's Customer Success Center at csc@railinc.com or 1-877-RAILINC (724-5462).

Use the following procedure to search for parts by your company:

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-11 > Manufacturer Search**.

Exhibit 34. Manufacturer Search Menu Item



3. Enter your search criteria. For example, select a Why Made Code from the **Why Made Code** drop-down field and click **Search**.

Exhibit 35. Manufacturer/Reconditioner Search

 A screenshot of the 'MD-11 Manufacturer/Reconditioner Search' form. The form has a title bar with the text 'MD-11 Manufacturer/Reconditioner Search' and a close icon. Below the title bar, there are several search criteria fields:

- 'Why Made Code (WMC)' and 'Created Date' (with a calendar icon).
- 'Failure Progression Mode (FPM)' and 'Repair Date' (with a calendar icon).
- 'Bearing Size' and 'Bearing Certificate Number' (both with dropdown arrows).
- 'Failure Date' (with a calendar icon).
- 'Manufactured Date' (with a calendar icon).
- A row of radio buttons for 'New / Reconditioned' (with 'New' and 'Reconditioned' options), and a row of radio buttons for 'Backing Ring Loose' (with 'Yes' and 'No' options).

 At the bottom right of the form, there are two buttons: 'Reset' and 'Search' (in blue).

- The Search returns data for all MD-11 parts from your company for the selected Why Made Code. Result fields are slightly different for manufacturer and reconditioner.

Exhibit 36. Manufacturer/Reconditioner Search Results

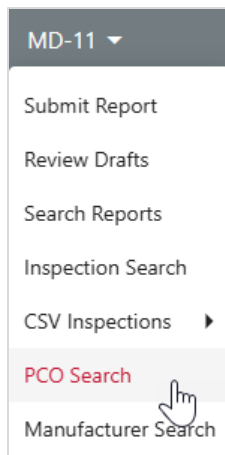
MD-11 Manufacturer/Reconditioner Search											
Search Results											
2,730 Results											
Export to CSV											
Details	External Closeout	WMC	FPM	Bearing Size	Bearing Certificate Number	New / Reconditioned	Manufactured Date	Failure Date	Repair Date	Created Date	
View	No	91	NV	E	1A	New	08-2011	01-23-2018	01-29-2018		
View	No	51	NV	F	1A	New	08-2011	03-24-2018	03-26-2018		
View	No	50	WE	F		Reconditioned	XX-XXXX	03-17-2018	03-28-2018		
View	No	51	NV	F	1A	New	08-2011	03-20-2018	03-31-2018		
View	No	51	NV	F	1A	New	08-2011	03-30-2018	04-05-2018		
View	No	52	NV	F	1A	New	08-2011	05-18-2018	05-30-2018		
View	No	51	NV	K	1A	New	08-2011	06-05-2018	06-06-2018		
View	No	52	NV	F	1A	New	08-2011	06-03-2018	06-06-2018		
View	No	91	NV	F	1A	New	08-2011	06-06-2018	06-07-2018		
View	No	91	NV	E	1A	New	08-2011	06-07-2018	06-07-2018		
View	No	91	NV	K	1A	New	08-2011	06-11-2018	06-11-2018		
View	No	91	NV	E	1A	New	08-2011	06-08-2018	06-09-2018		

- To view the read-only details of a part, select the **View** link located in the **Details** column of the Search Results.
- Select **Export to CSV** to export the results list to a file.

Private Car Owner Search

You must be assigned to the MD-11 Private Car Owner role to use the Private Car Owner search function in MD-11 Reports. PCOs can only view equipment that is owned by their company with the Why Made Code of 91. If your company's data does not appear in the search results, contact Railinc's Customer Success Center at csc@railinc.com or 1-877-RAILINC (724-5462).

Exhibit 37. MD-11 Private Car Owner Search Menu Item



Use the following procedure to search for parts by your company:

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-11 > PCO Search**.

Exhibit 38. Private Car Owner Search

A screenshot of a web form titled 'MD-11 Private Car Owner Search'. The form contains several input fields and a search button. The fields are: 'Equipment IDs' (text input), 'MD IDs' (text input), 'Repair Key' (text input), 'Created Date' (date picker), 'Reporter Mark' (text input), 'Performer Mark' (text input), 'Repair Date' (date picker), 'Why Made Code (WMC)' (dropdown menu showing '91 - Acoustic Bearing Detector Level 1, Non-Verified'), 'Manufactured Date' (date picker), 'Bearing Size' (dropdown menu), 'Wheel Serial Number' (text input), 'Submission Status' (dropdown menu showing 'Any'), and a checkbox labeled 'Show Only Closed Reports'. At the bottom right, there are 'Reset' and 'Search' buttons.

3. Entering search criteria is not required, but can be used to narrow your search.
 - a. Equipment Numbers and MD IDs can be entered individually or as a list.
 - b. To search on the submission status, select the status from **Submission Status** drop-down list.
 - c. For only closed reports, select the **Show only Closed Reports** checkbox.
4. Click **Search**.

Exhibit 39. Private Car Owner Search Results

MD-11 Private Car Owner Search

Search Results

2 Results [Export to CSV](#)

Equipment ID	MD ID	Reporter	Performer	WMC	Detection Method	Bearing Size	New / Reconditioned	Submissio
RAIL456	CFQ9E1	BNSF	BNSF	91		L	Reconditioned	Internal Su
RAIL456	HJH5XU	BNSF	CPRS	91	D	K		Report Sul

10 25 50 100

5. The Search returns data for all MD-11 equipment from your company within the search criteria for Why Made Code 91 only.
6. To view the defect report details, click on the **Equipment ID** link located in the **Equipment ID** column of the Search Results. The link appears once the report has completed.
7. Select **Export to CSV** to export the results list to a file. The CSV file will only contain the report details that have completed.