



GE_GiraffeWarmer_Maintenance_GUI.exe

User Guide: Giraffe Warmer Maintenance Application

Table of Contents

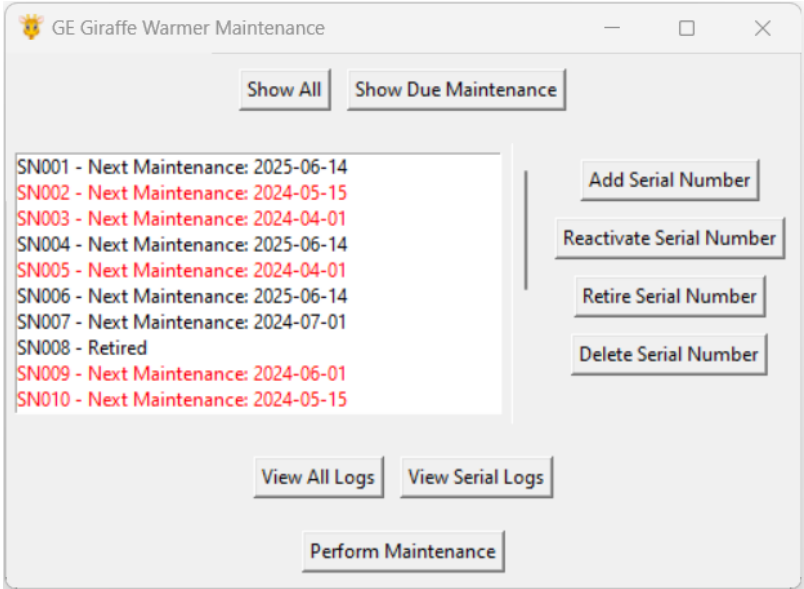
1. Installation
2. Interface Overview
3. Basic Operations
 - Filtering Serial Numbers
 - Performing Actions
 - Viewing Maintenance Logs
 - Submitting Maintenance Checks
4. Error Handling
5. Exiting the Application
6. Troubleshooting

1. Installation

- **Executable File:** Double-click on the `.exe` file provided to launch the application.
- **Interface Overview:** Upon launch, you'll see the main window with various components.

2. Interface Overview

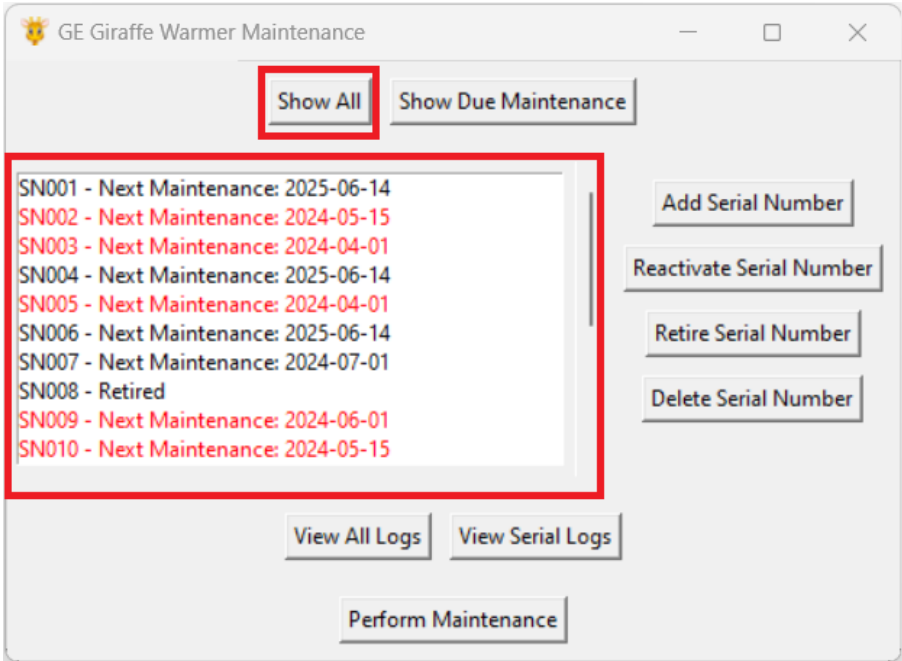
- **Title:** Displays "GE Giraffe Warmer Maintenance" at the top.
- **Serial Numbers List:** Lists all managed serial numbers and their status.
- **Filter and Action Buttons:** Buttons above the serial number list for filtering and to the right of the list for actions on the serial numbers.
- **Logs and Maintenance Sections:** Sections for viewing logs and performing maintenance; located below the serial number list.



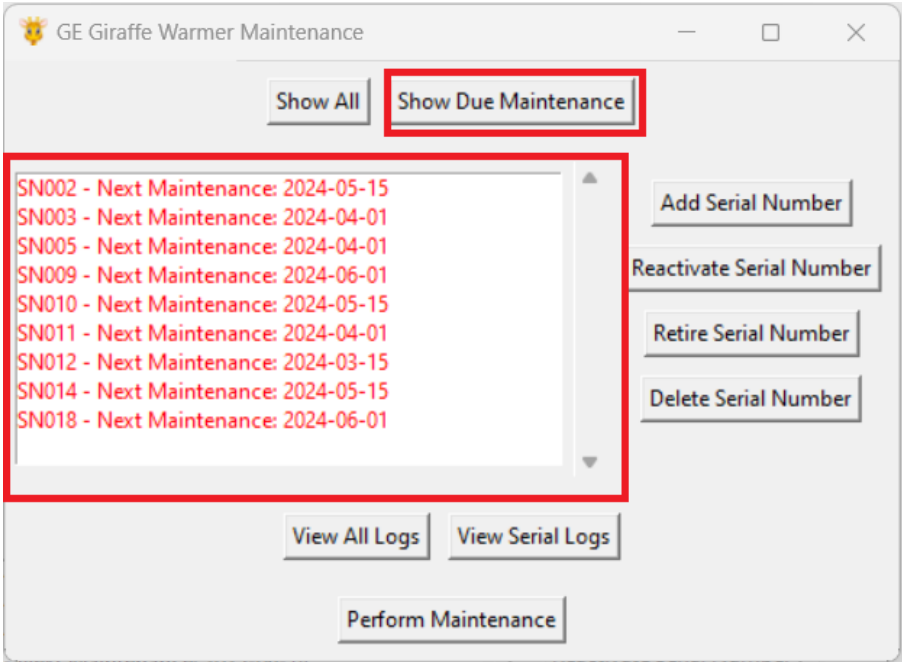
3. Basic Operations

Filtering Serial Numbers

- **Show All:** Display all serial numbers and date of next maintenance. Due maintenance is listed in red.

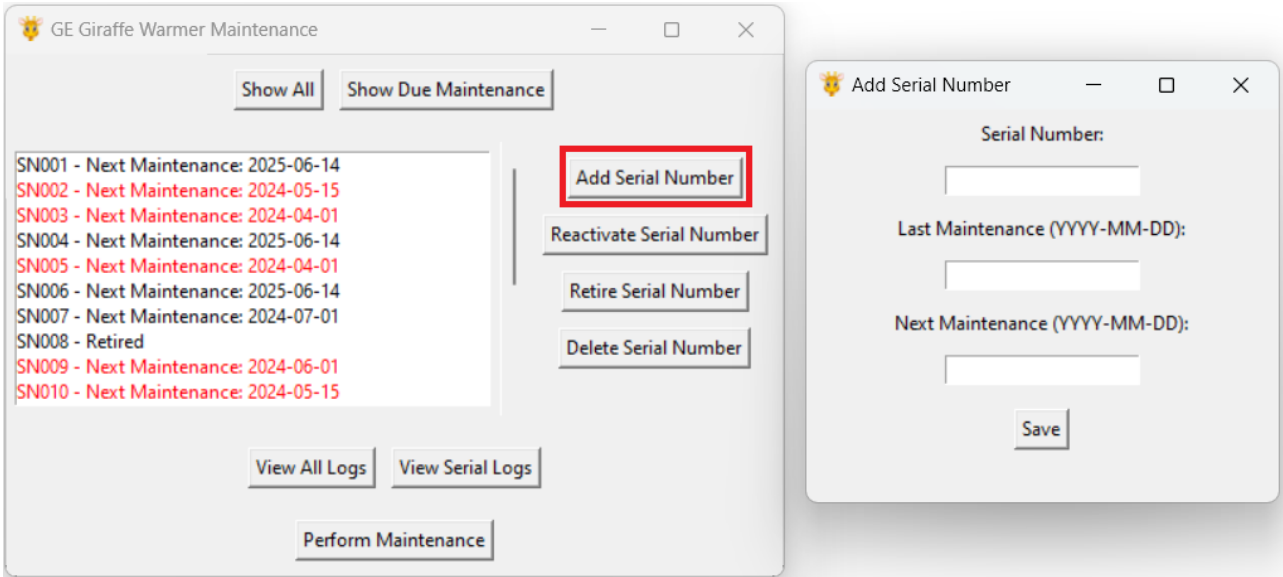


- **Show Due Maintenance:** Filter and display only serial numbers due for maintenance.



Performing Actions

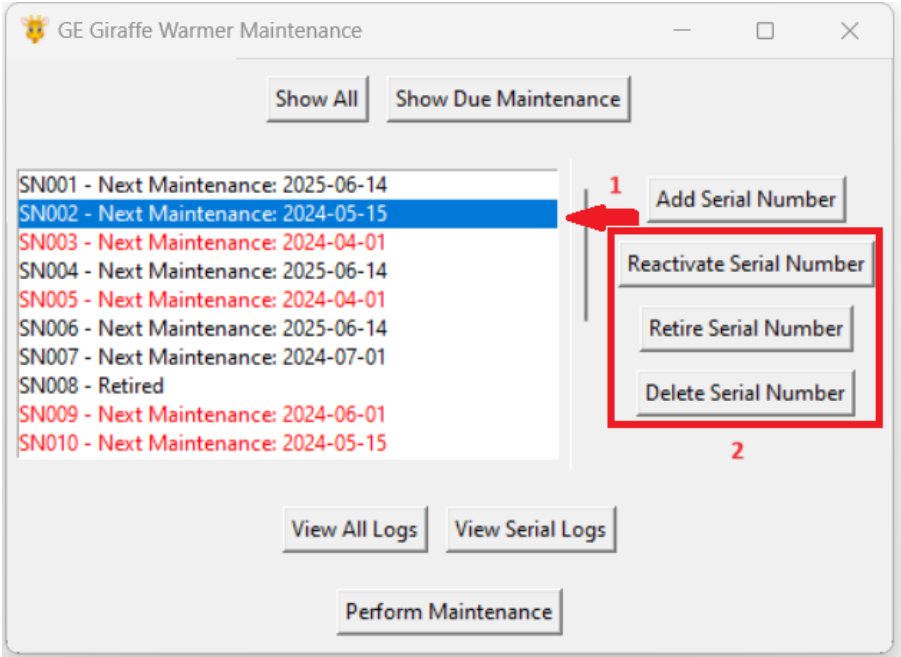
1. Click **Add Serial Number** to add a serial number to the list. Adding is logged on **Save**.



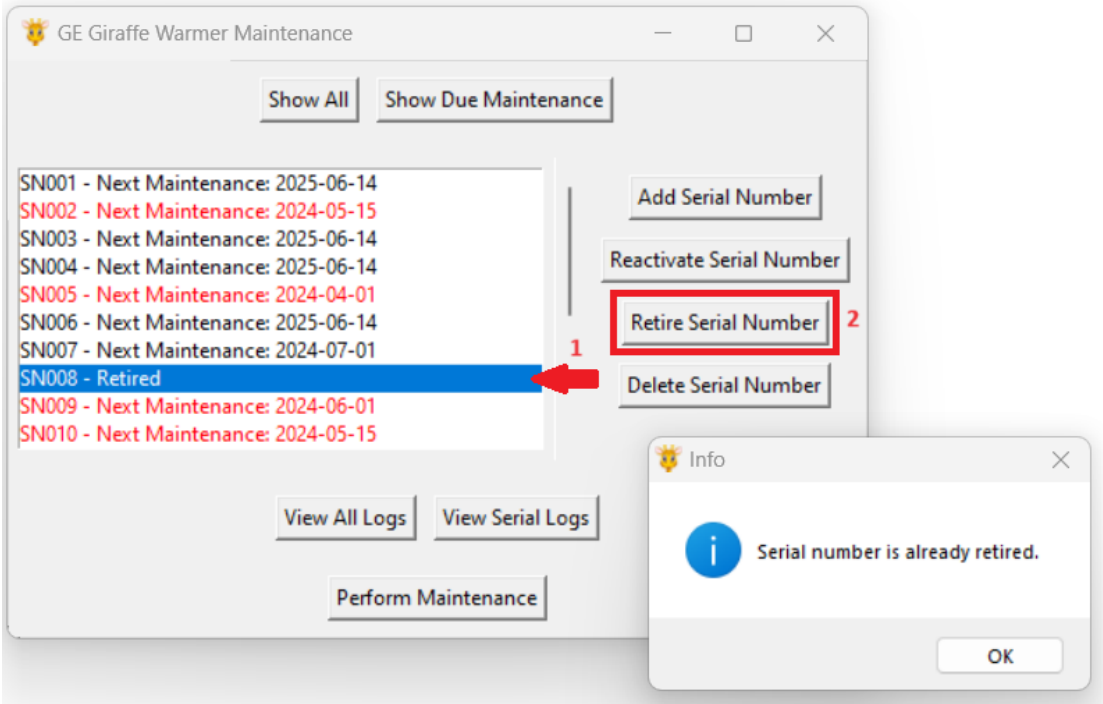
or

1. Select a serial number by clicking it.

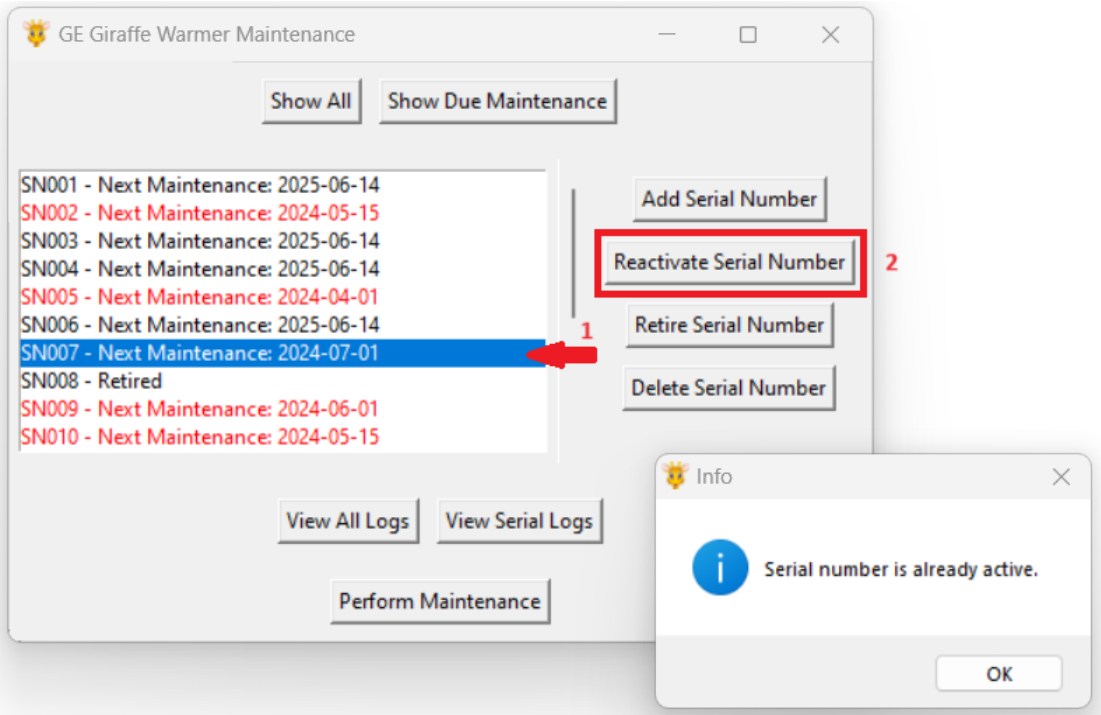
2. Click the button corresponding to the desired action. Actions are logged.



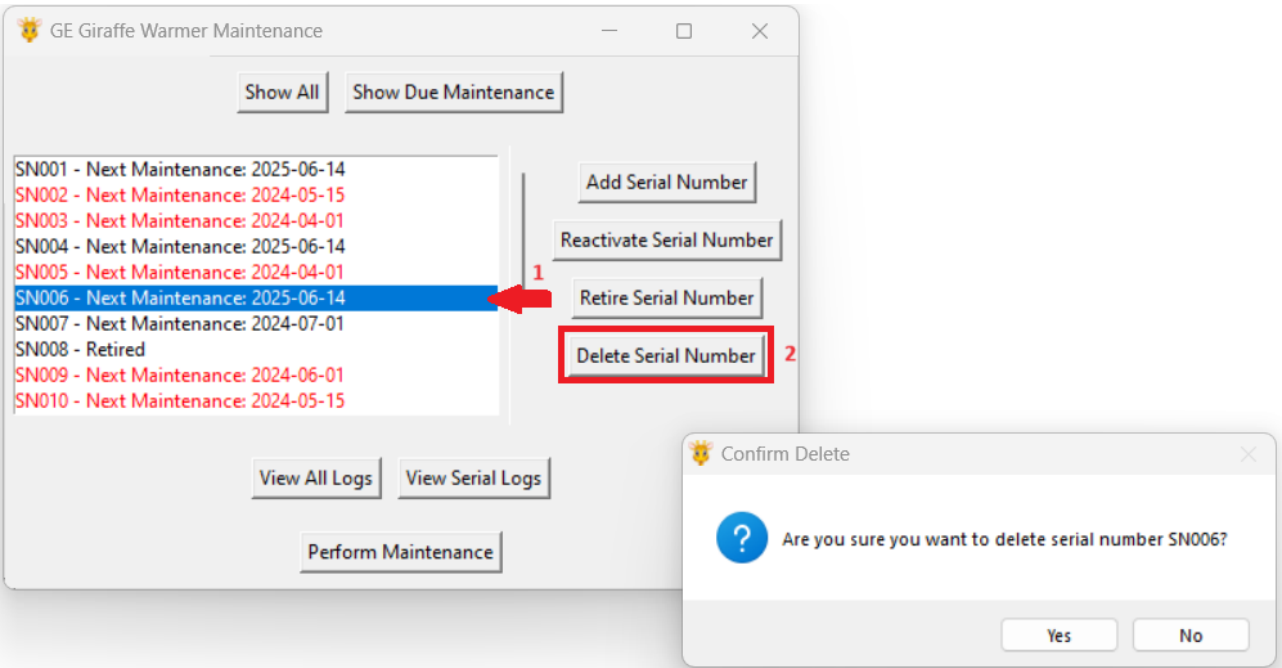
- **Retire Serial Number:** Mark a serial number as retired. Can no longer maintenance. You cannot retire a serial number that is already retired.



- **Reactivate Serial Number:** Activate a retired serial number. Remove from retirement. You cannot reactivate a serial number that is already active.

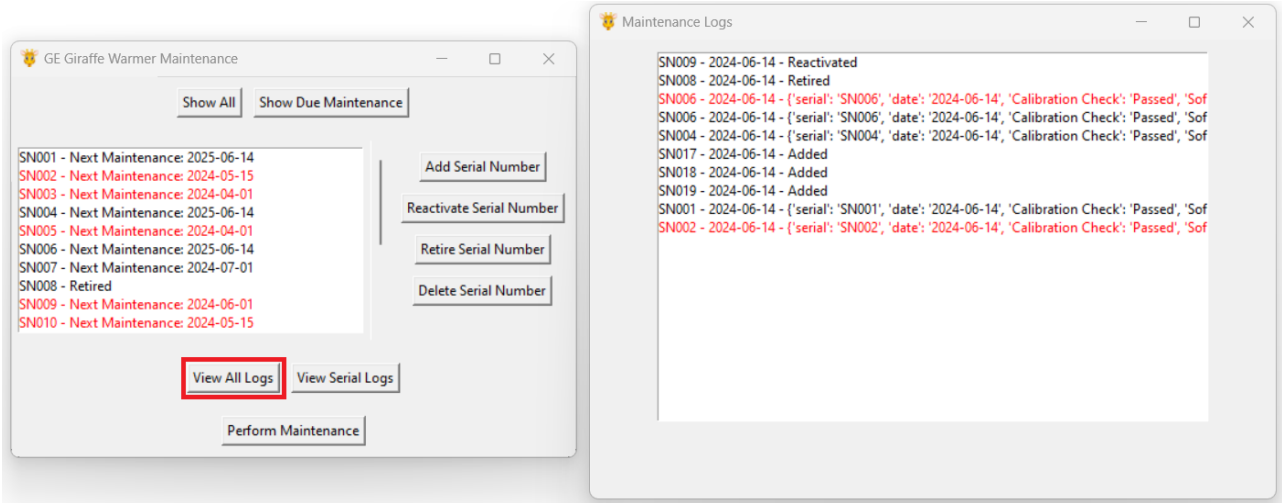


- **Delete Serial Number:** Remove a serial number from the list. Must confirm.

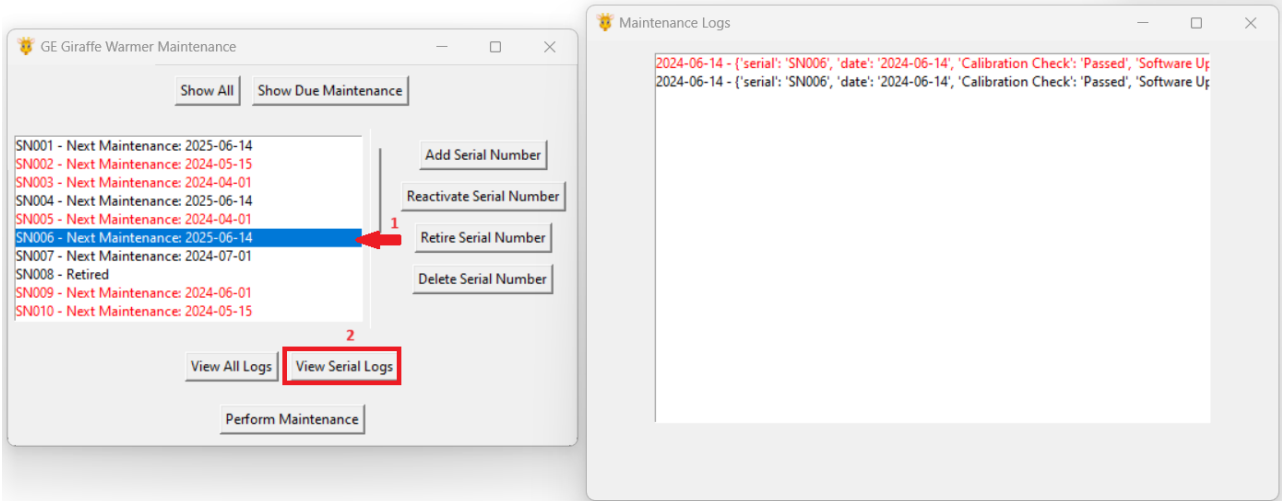


Viewing Maintenance Logs

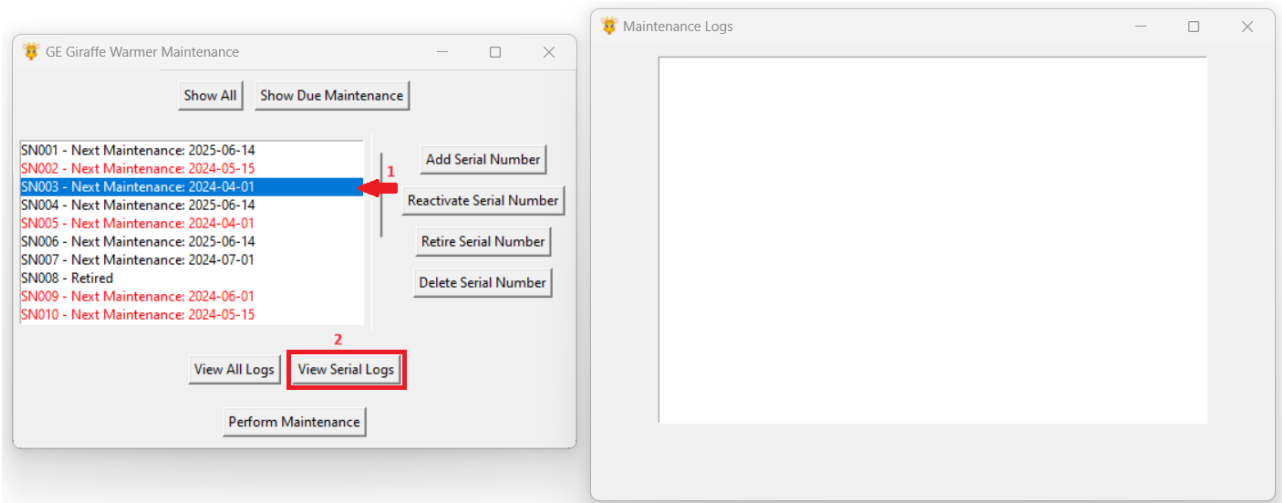
- **View All Logs:** See all maintenance logs. Failed checks will log in red. Scroll over or press the right arrow key on your keyboard to see entire log.



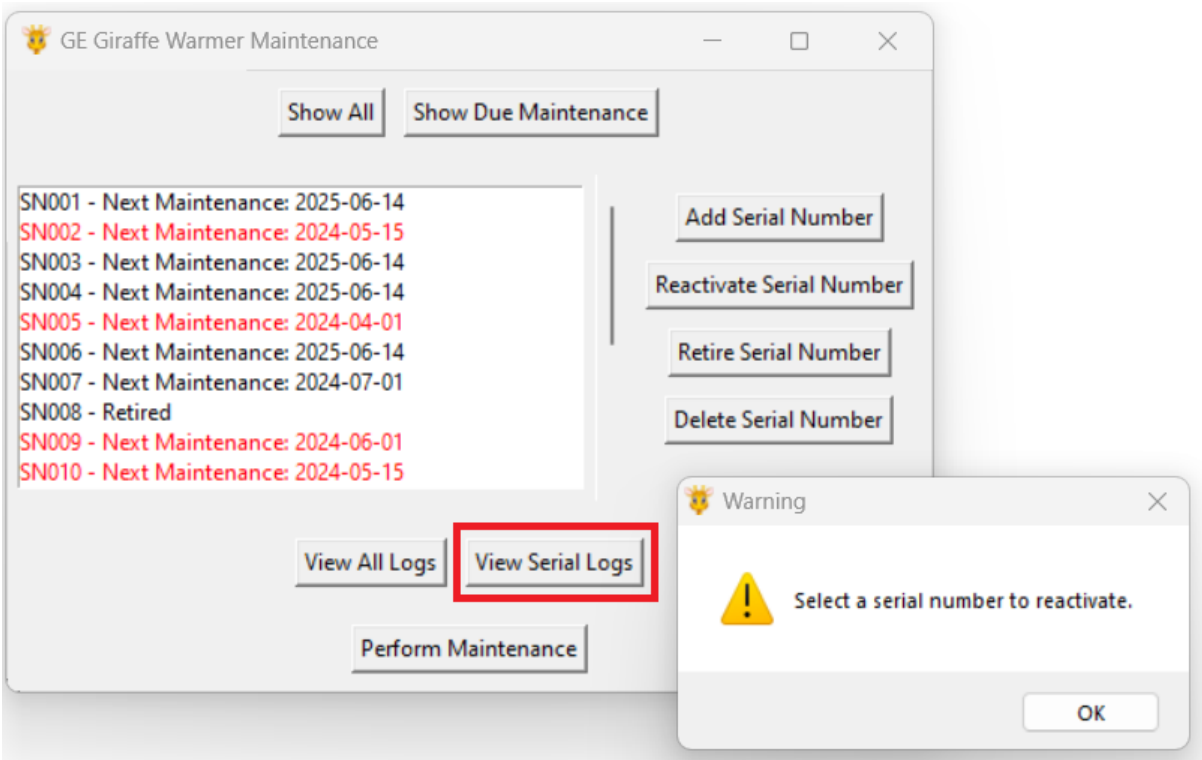
- **View Serial Logs:** View logs for a specific serial number.



- If a serial number does not have a log, it will be blank.

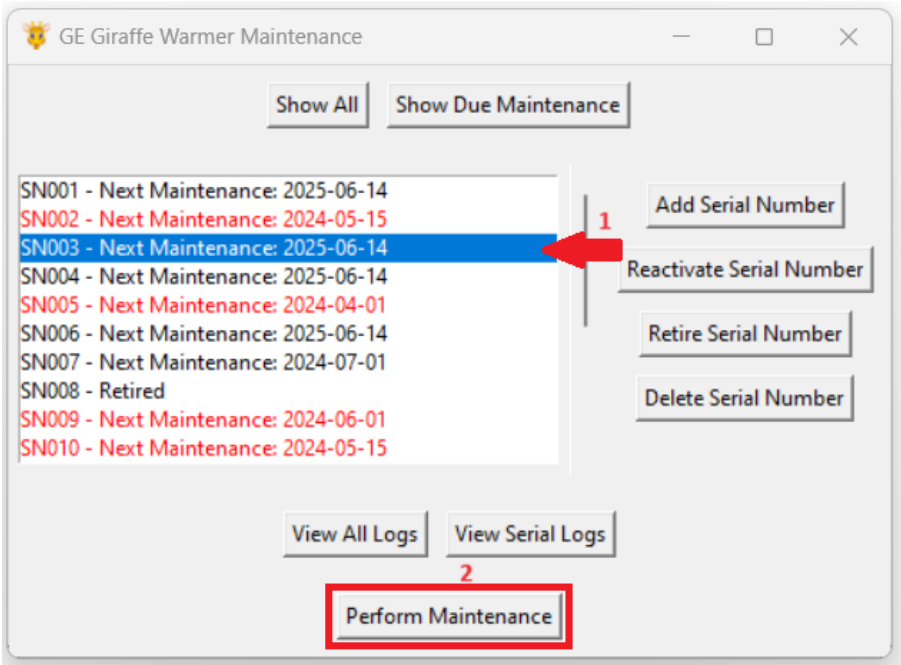


- Must select serial number first, or will receive an error.



Submitting Maintenance Checks

1. Select a serial number.
2. Click **Perform Maintenance**.



3. Enter values for maintenance checks. Can verify the values will pass the check by clicking **Check** beside each entry. These checks are not logged.

GE Giraffe Warmer Maintenance

Show AllShow Due Maintenance

SN001 - Next Maintenance: 2025-06-14
SN002 - Next Maintenance: 2024-05-15
SN003 - Next Maintenance: 2024-04-01
SN004 - Next Maintenance: 2025-06-14
SN005 - Next Maintenance: 2024-04-01
SN006 - Next Maintenance: 2025-06-14
SN007 - Next Maintenance: 2024-07-01
SN008 - Retired
SN009 - Next Maintenance: 2024-06-01
SN010 - Next Maintenance: 2024-05-15

Add Serial Number

Reactivate Serial Number

Retire Serial Number

Delete Serial Number

View All LogsView Serial Logs

Calibration Check

Enter the temperture reading at 37°C. °C

Check

Software Update

Enter the current software version.

Check

Sensor Check

Enter sensor output readings. mV

Check

Submit Maintenance

- Calibration Check fail

Check Result

!

Measurement should be between 36.5°C and 37.5°C.

OK

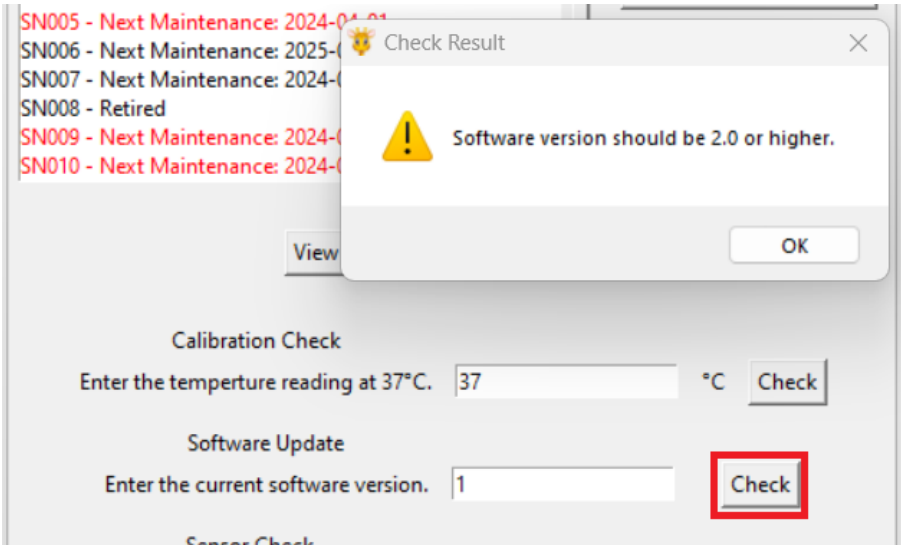
Calibration Check

Enter the temperture reading at 37°C. 36 °C

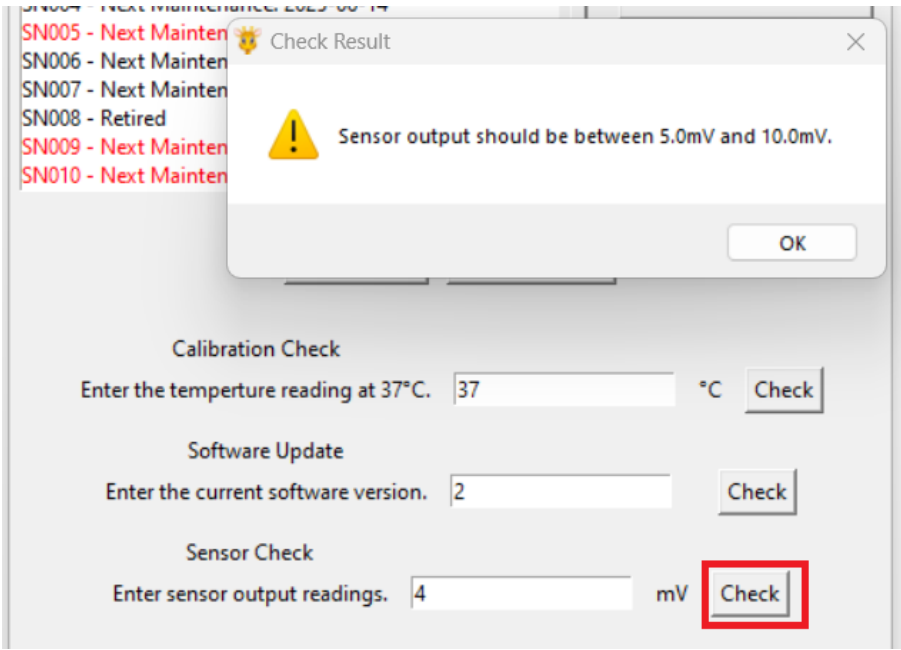
Check

8 / 15

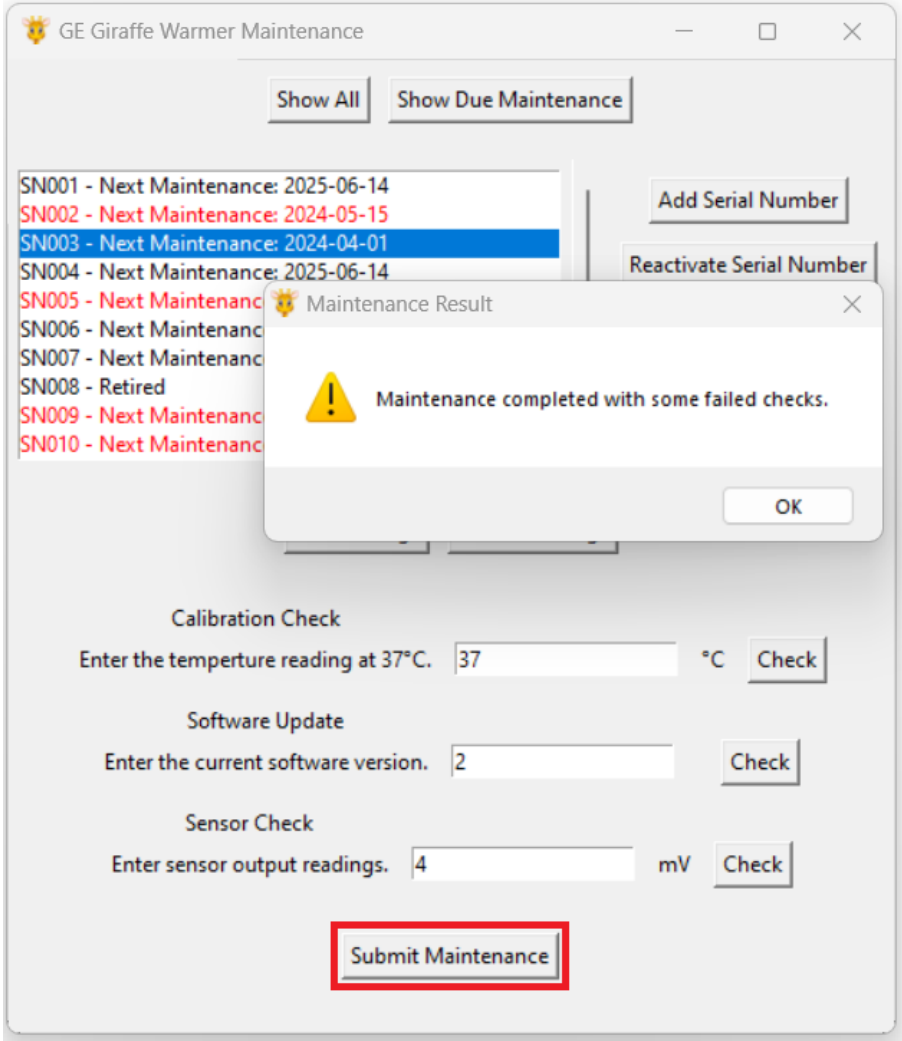
- Software Update fail



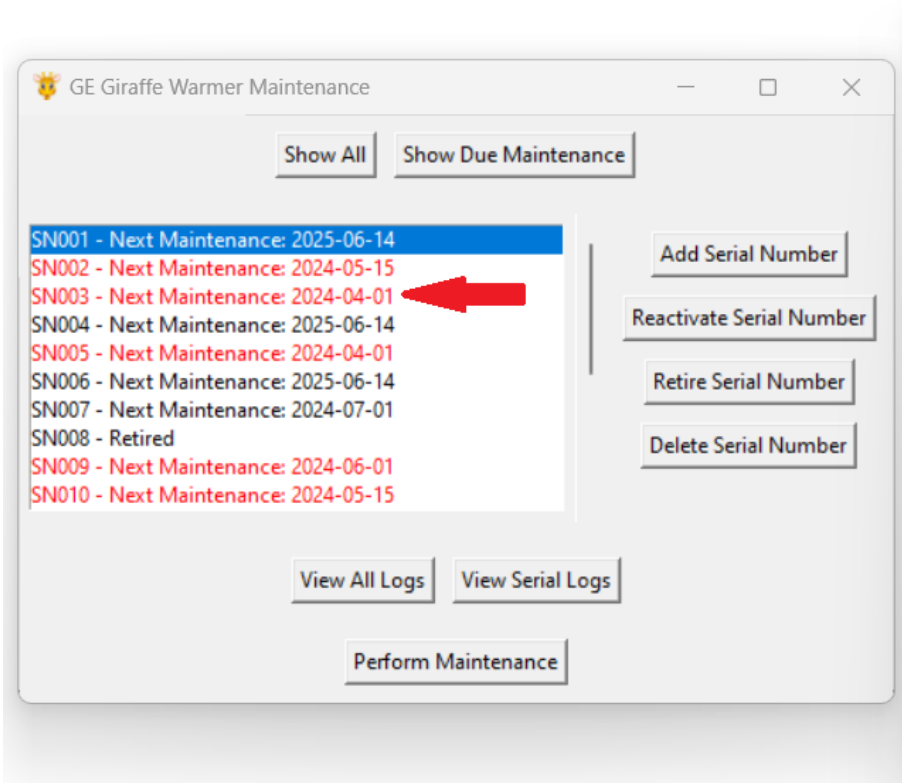
- Sensor Check fail



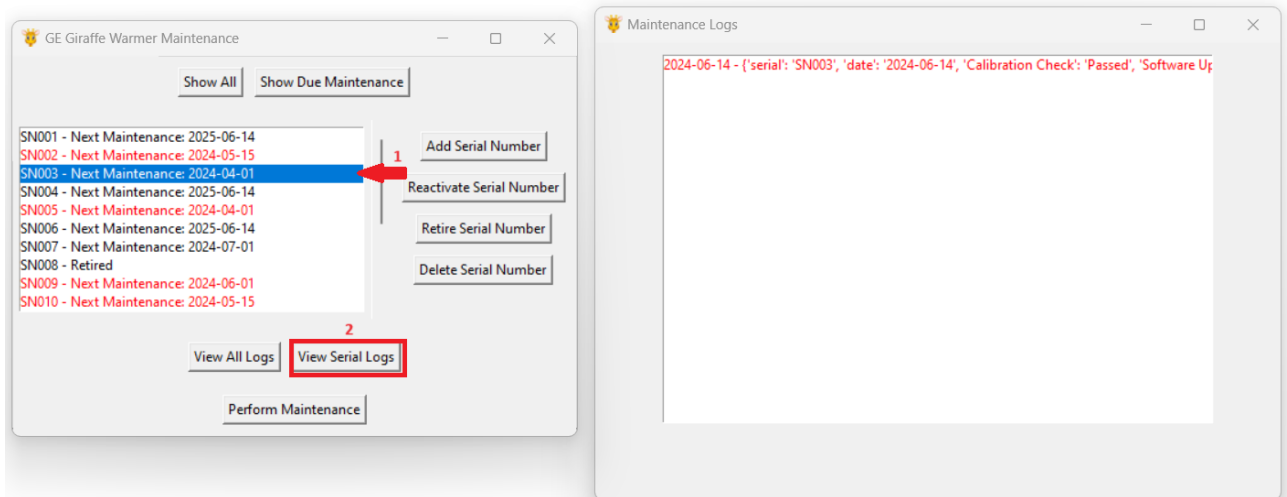
4. Click **Submit Maintenance**. Maintenance is logged. If a test is failed, it will still submit and be logged.



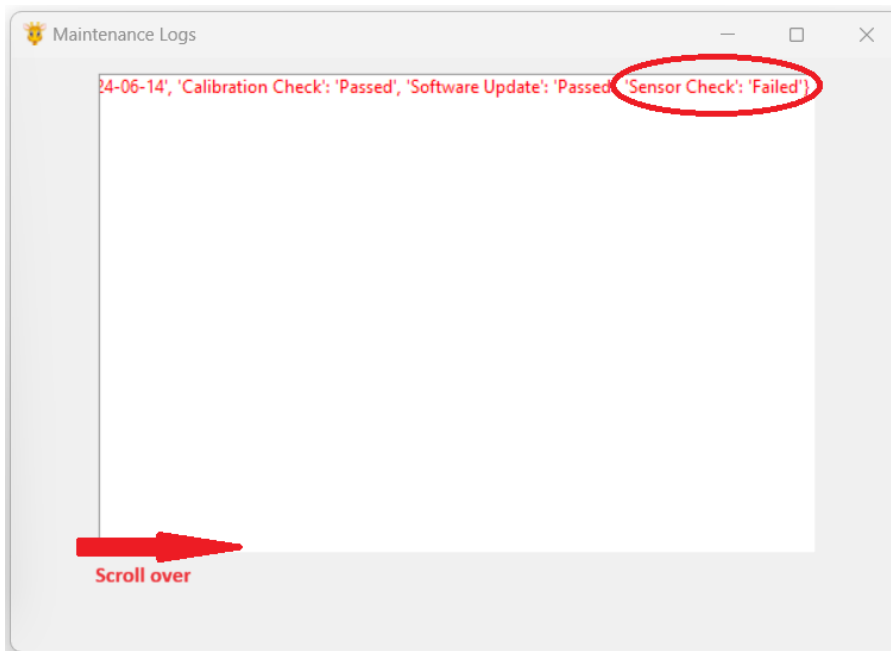
- The serial number will remain red and stay in the **Due Maintenance** list when filtered.



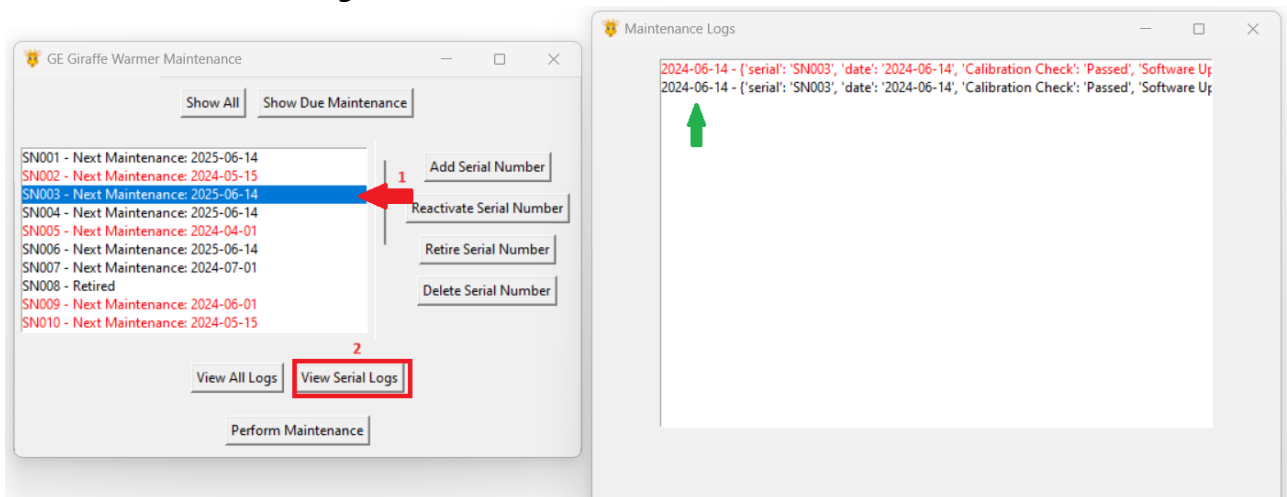
- Check the logs to determine reason for fail. This is an example of checking the **serial log**.



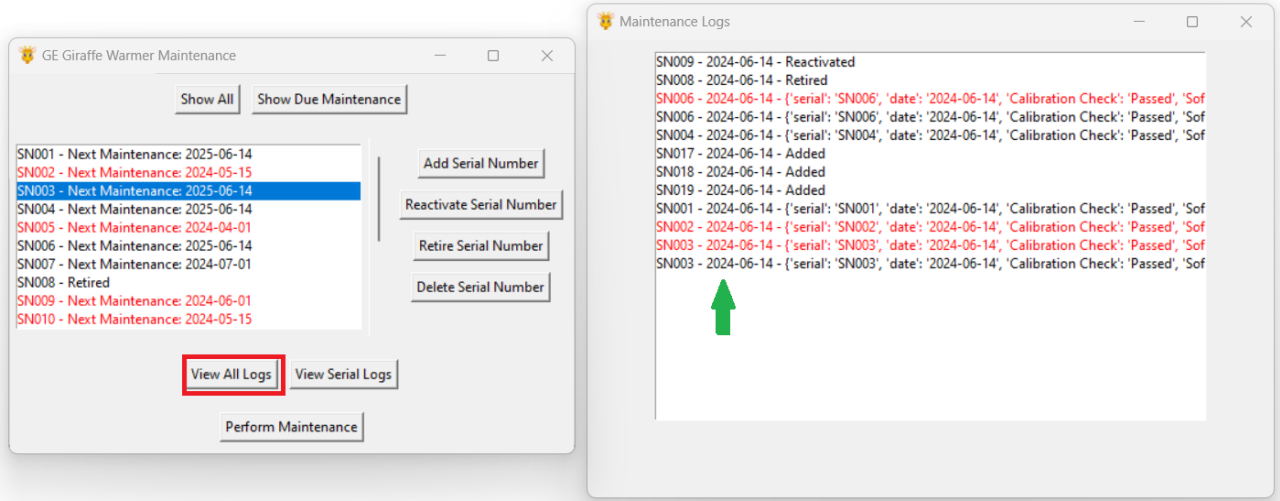
- You may need to scroll over to determine the reason for fail.



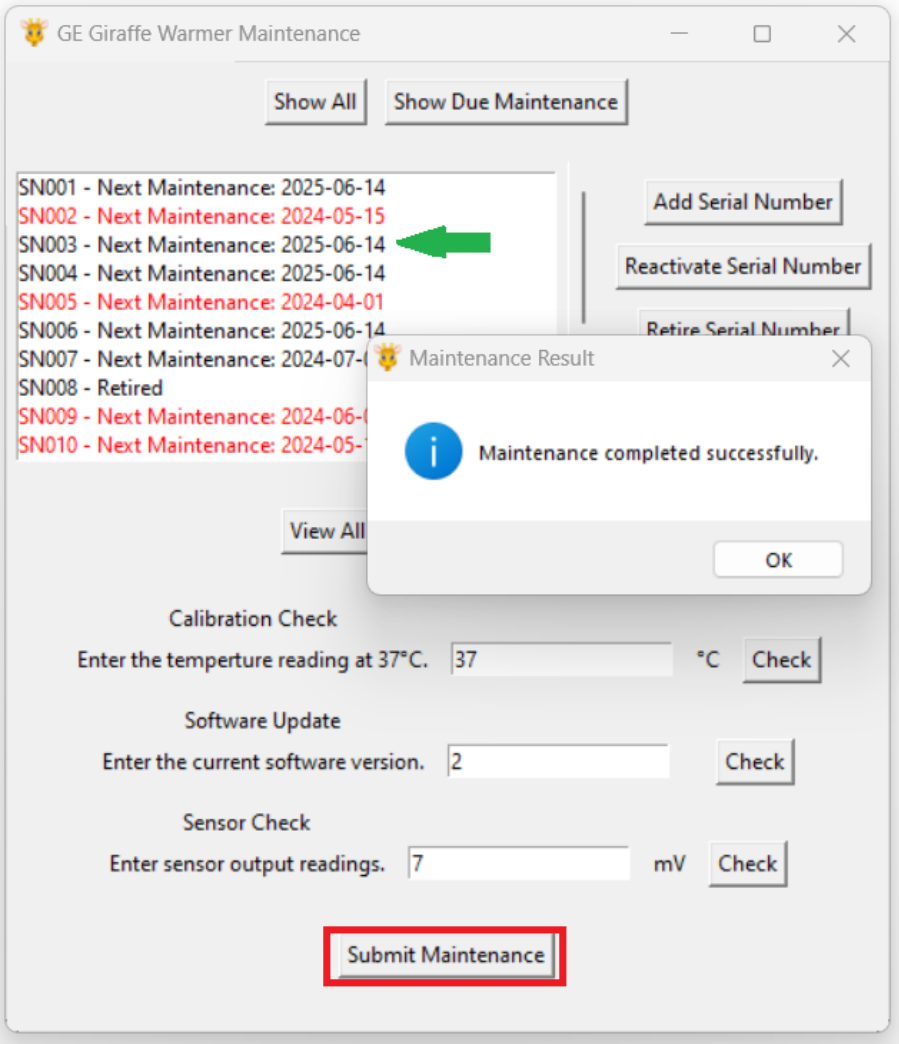
- Redo the maintenance according to machine manual instructions for reason of fail (recalibration, etc.)
- Check logs after successful maintenance.
- You can check the **serial log**:



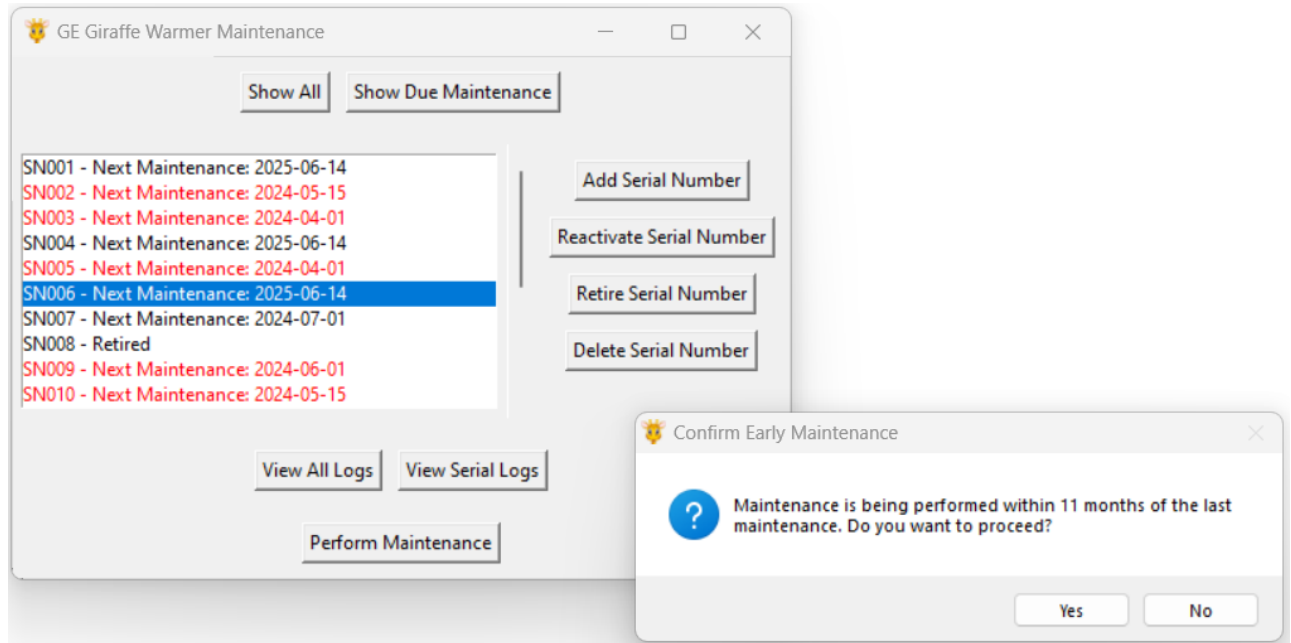
- You can also check by clicking **View All Logs**



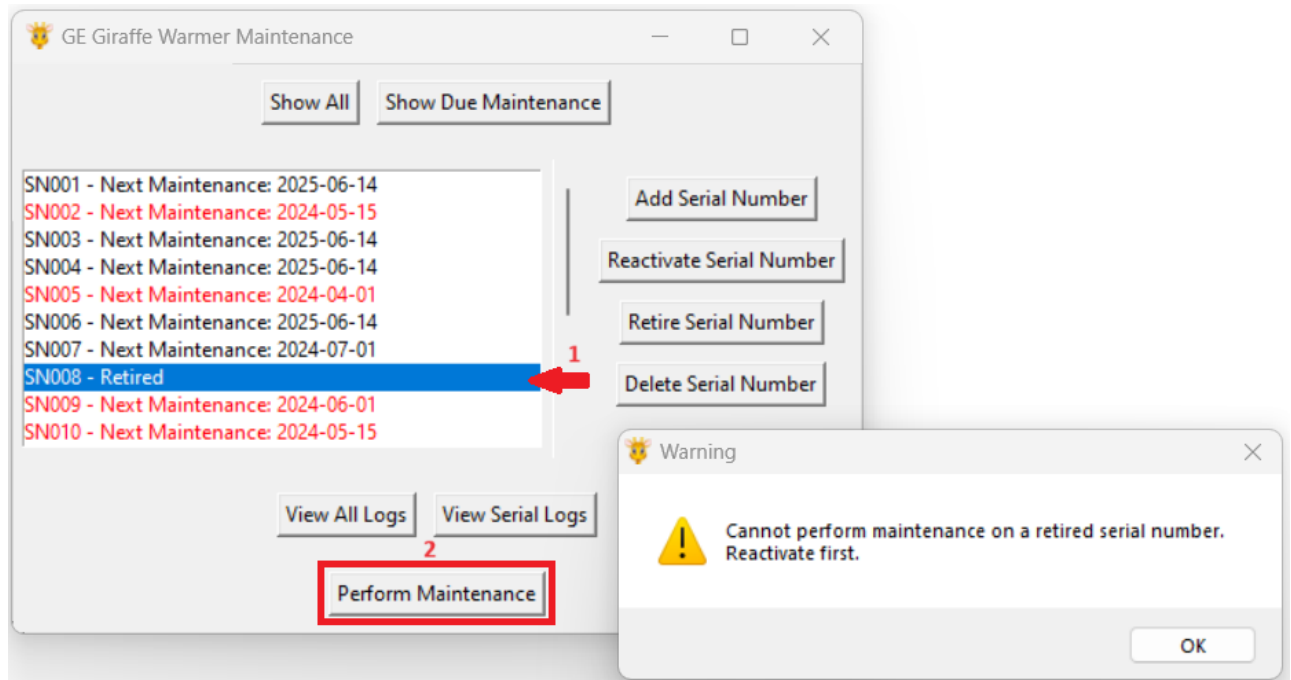
- If all tests are passed, the serial number is removed from the Due Maintenance list and no longer red.



- **Maintenance Frequency:** Assumed one year from last maintenance. If you try to perform maintenance early, you will need to confirm.



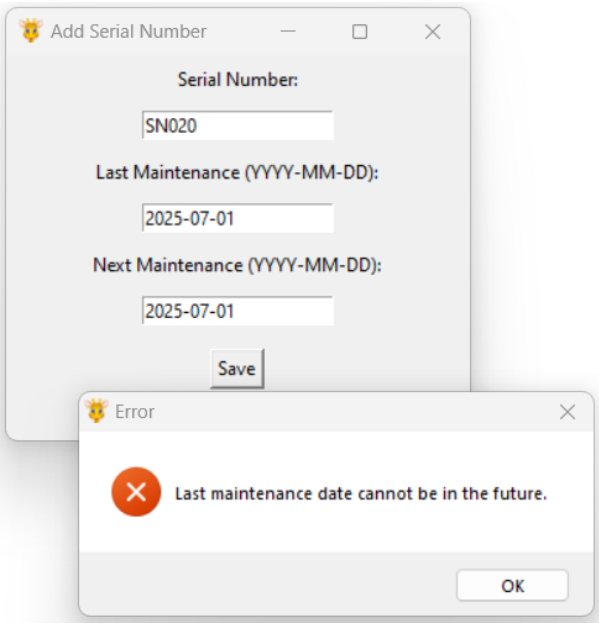
- **Retirement:** You cannot perform maintenance on retired serial numbers.



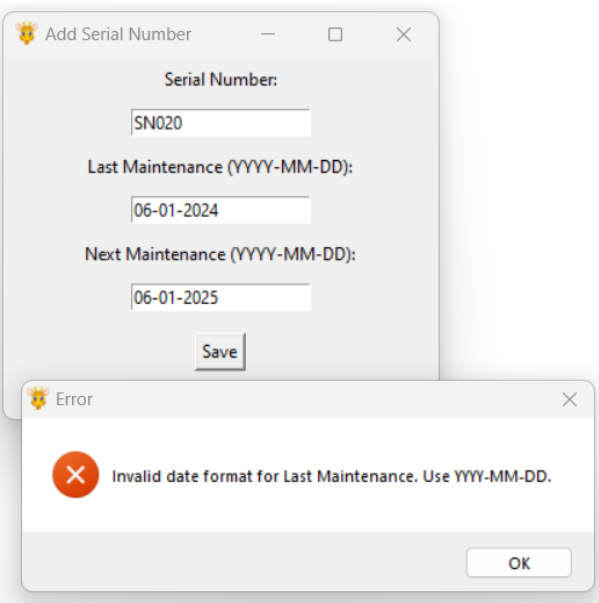
4. Error Handling

- **Confirmation Dialogs:** Confirms critical actions like deleting a serial number. See [Performing Actions](#).
- **Invalid Actions:** Alerts for attempting to perform actions without first selecting a serial number, or trying to perform maintenance on retired serial numbers. See [Performing Actions](#).
- **Invalid Inputs:** Alerts for incorrect dates, formats and, serial numbers when adding a serial number.

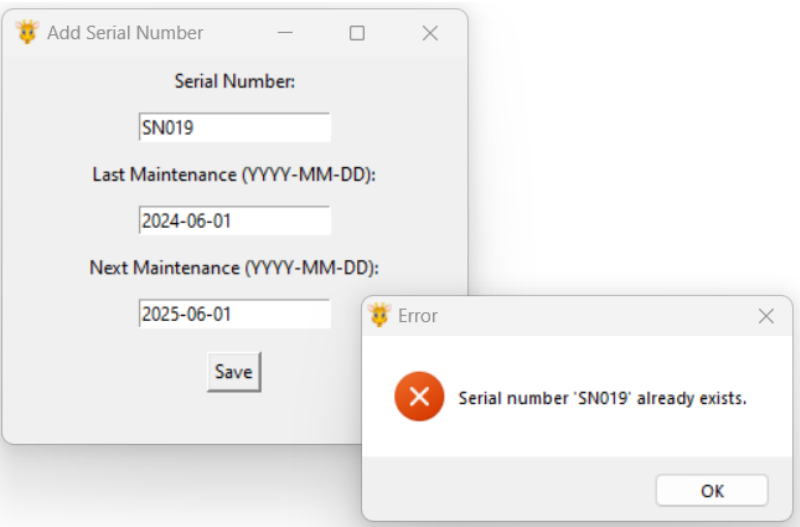
Invalid dates



Invalid formats



Invalid serial number



5. Exiting the Application

- All actions, maintenance, logs, and new serial numbers are automatically saved.
- Close the window by clicking the **x** in the top right corner.

6. Troubleshooting

- **Database Errors:** The database `giraffe_warmer_maintenance.db` is generated for accessibility.
- **GUI Issues:**
 1. Close the message box window and try again.
 2. Restart the application.