



SmarTruck

Truck Terminal

User Manual

Version 1.2
September 2026

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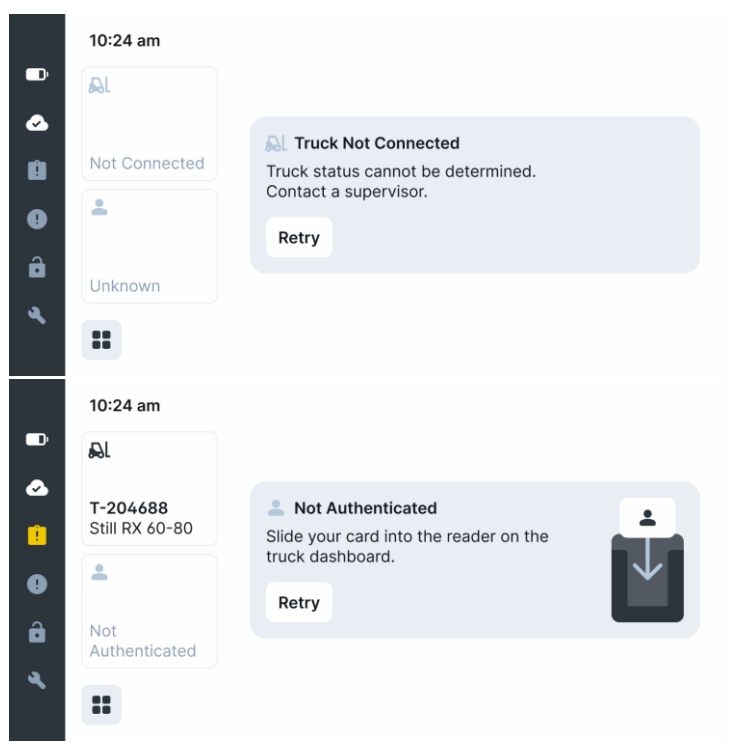
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1. PoziTech Truck Terminal

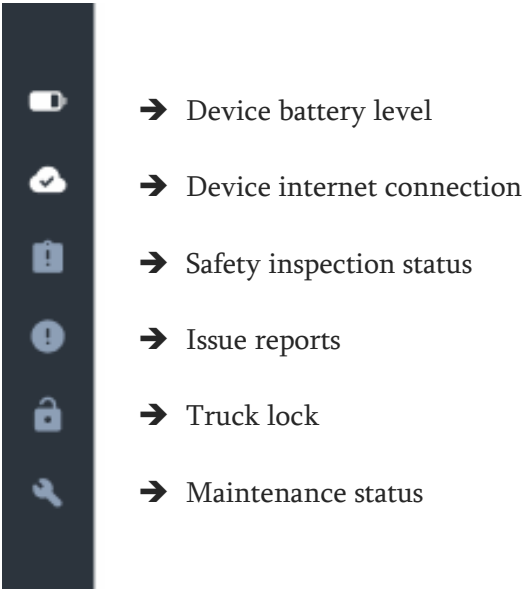
1.1. Launch the PoziTech Truck Terminal

If the initial setup procedure is successful, the following screen will be the Home screen each time you start the application:



To initiate the pre-shift inspection procedure, the portable handheld device must be online, connected to the forklift, indicated on the left side of the screen in the top tile.

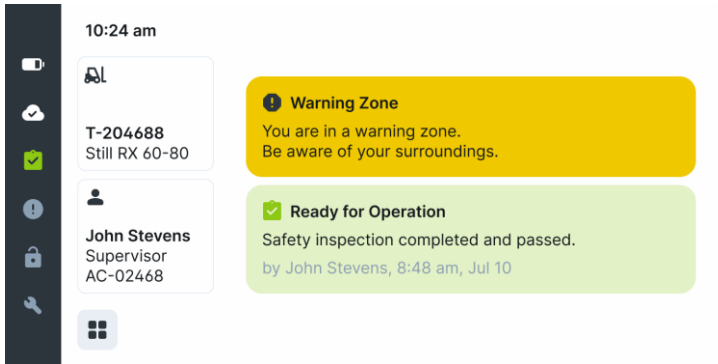
On the Home screen (left-most side of the Dashboard, dark gray highlighted bar with icons), there is information about the status of the device and the forklift it is connected to. The icons can change color based on the state of the device and serve as an additional indicator (additional information in Subsection 1.3).



There are other status indicators on the Home screen appearing as Dashboard Cards (color-coded boxes on the right side of the Home screen) and correspond to the above-mentioned icons, but include more details about required actions (details in the Subsection 1.2). However, the Dashboard Cards only appear after operator authentication.

1.2. Dashboard Cards

There are other status indicators on the Home screen appearing as Dashboard Cards (color-coded boxes on the right side of the screen) and correspond to some of the above-mentioned icons, but include more details about required actions.



Note that there are additional Cards that can appear and not displayed as an icon.

All the status messages that can appear on the Home screen informing and warning the operator. There are four types of Cards:

➔ **Maintenance Lock Cards:**

A truck can be under two types of Locks as shown on the Cards:

- Truck Lock
- Maintenance Lock



Truck Locked

This truck has been locked by a supervisor and cannot be operated.



Truck Locked

This truck has been locked by a supervisor. You can unlock it.

by John Stevens, 8:48 am, Jul 10

Unlock



Maintenance Lock

This truck is locked for maintenance and cannot be operated. Contact a supervisor.

Issue Reports



Maintenance Lock

This truck is locked for maintenance. You can clear the maintenance lock by completing a safety inspection.

by John Stevens, 8:48 am, Jul 10

Unlock

Issue Reports

Truck Lock:

A Truck Lock is an ad hoc lock that can be manually applied to a forklift by a supervisor and can only be released by a supervisor as well. In this case, no safety inspection is required.

Maintenance Lock:

The Maintenance Lock is not applied manually, it is automatically triggered by either a failed safety inspection or a collision. To unlock

the forklift, a supervisor is required, and in order to return the forklift to operable mode, the supervisor must complete and pass a safety inspection.

➔ Mobile Terminal Status Cards:

These cards indicate the device status, such as truck connections, operator authorizations, low battery, and network connection.

Truck Not Connected

Truck status cannot be determined.
Contact a supervisor.

Retry

Not Authenticated

Slide your card into the reader
on the truck dashboard.

Retry



Server Offline

No server connection. Check the network
connection, or contact a supervisor.

Retry

Terminal Battery is Low

Connect the terminal to a power source,
or contact a supervisor.

➔ Inspection Status Cards:

Inspections can have four states:

 **Ready for Operation**
Safety inspection completed and passed.
by John Stevens, 8:48 am, Jul 10

 **Inspection Failed**
Operation is disabled. Contact a supervisor.

 **Inspection Required**
Operation is disabled until the daily safety inspection is completed.
Start Inspection

 **Post-Collision Inspection Required**
A collision was detected. Operation is disabled until a post-collision safety inspection is completed.
Start Inspection

Ready for Operation:

The operator has completed and passed the safety inspection and can now start driving the forklift.

Inspection Failed:

The operator started the inspection but did not pass it. The forklift is placed under Maintenance Lock and requires a supervisor to resolve the issue before it can be operated.

Inspection Required:

The operator must start a safety inspection. This status is typically shown when an operator begins their shift.

Post-Collision Inspection Required:

The forklift has been involved in a collision and is under Maintenance Lock. A supervisor must complete the inspection to unlock the forklift.

➔ **SafeTruck Warning Cards:**

As part of the SafeTruck features, the system:

- Recognizes the operating forklift's speed
- Detects collisions
- Measures and warns of distances from other operators, gates, and operating forklifts



Speed Limited

Speed is limited to walking pace.



Caution Mode

Truck is in caution mode. Be extra cautious.



Warning Zone

You are in a warning zone.
Be aware of your surroundings.



Danger Zone

You are in a danger zone.
Be extra aware of your surroundings.

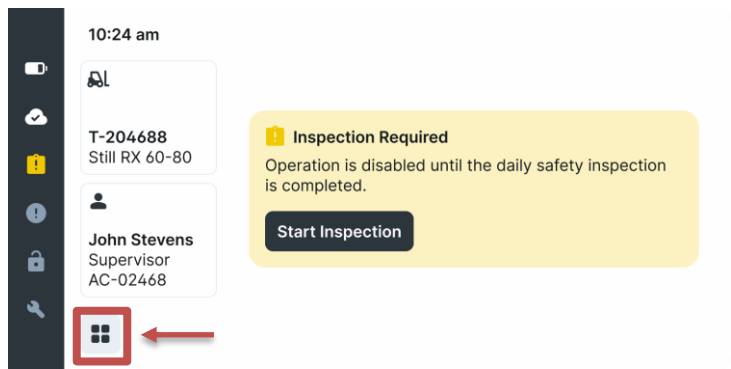


Collision Detected

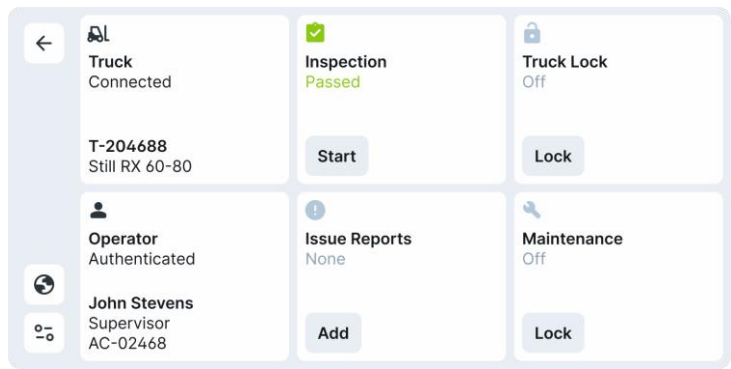
A collision was detected. Speed is limited.
Stop the truck in a safe place.

1.3. Control Panel

The Control Panel can be accessed by clicking the small icon in the bottom corner on the left side of the Home screen:

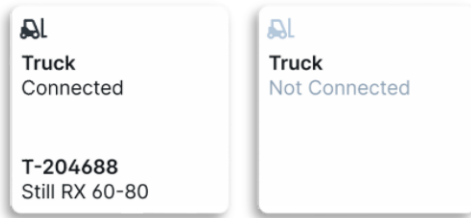


This takes the user to the **Control Panel** which has the following look:



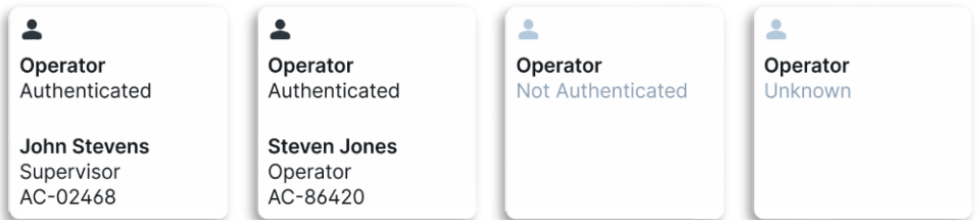
Each box is referred to as a **Control Tile**. Recognise that the Control Panel represents the bottom four icons from the Home screen's left-most side (dark gray bar), in addition to the forklift and operator information.

These Tiles can display various states:



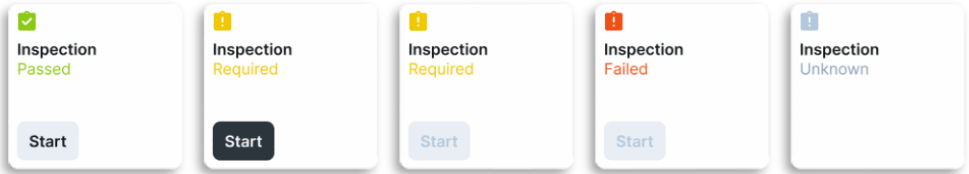
Two states:

Either the mobile terminal is connected to the forklift or not



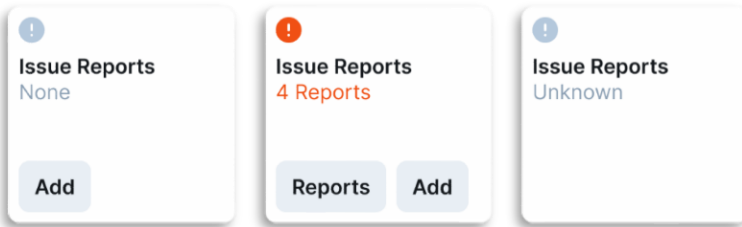
Four states:

1. the supervisor is authenticated
2. the operator is authenticated
3. there is no detectable access card in the card reader
4. when the mobile terminal is not connected to the forklift, the operator appears to be unknown (check the Truck connection to resolve)



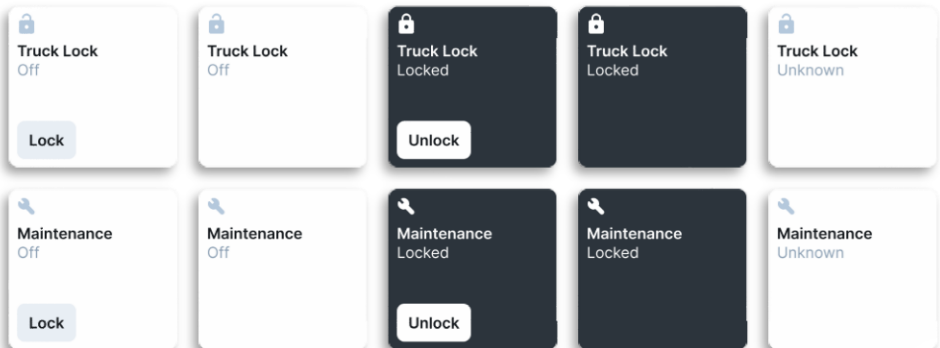
Five states:

1. the Safety Inspection has been completed and Passed
(Start button still available, since operators can start an inspection any time)
2. the forklift requires Inspection
(Start button appears as dark gray indicating it has to be pressed)
3. the forklift requires an Inspection by a supervisor
(Start button is not available for operators, requires a supervisor to check the forklift. A collision detection can cause this status)
4. the forklift has failed the Inspection
(Start button is not available for operators, requires a supervisor to redo the Inspection)
5. when the mobile terminal is not connected to the forklift, the Inspection appears to be unknown (check the Truck connection to resolve)



Three states:

1. there are no Issue Reports. By pressing Add button, anyone can generate one manually (See Subsection 1.4 Issue Reports)
2. there are Issue Reports. By pressing Reports button the operator/supervisor will get to the Issue Reports history and by pressing Add button, they can generate one manually (See Subsection 1.4 Issue Reports)
3. when the mobile terminal is not connected to the forklift, the Issue Reports appears to be unknown (check the Truck connection to resolve)



Five states:

→ represents the two types of locks (Check Subsection 1.2 Maintenance Lock for more information)

- 1. the forklift is not locked by either of the Lock types, but the supervisor has access to the Lock button to initiate a manual lock
- 2. the forklift is not locked by either of the Lock types and the operator has no access to initiate any lock on the forklift
- 3. the forklift is locked by both of the Lock types and the supervisor has access to the Unlock button to release the a manual lock
- 4. the forklift is locked by both of the Lock types and the operator has no access to release the a manual lock
- 5. when the mobile terminal is not connected to the forklift, both the Locks appears to be unknown (check the Truck connection to resolve)

1.4. Issue Reports

The Issue Reports screen can be accessed in multiple ways. One way is by clicking the Issue Reports button while a supervisor is attempting to lift a Maintenance Lock. In this case, the supervisor is required to review the history of reports generated when an operator filled out a Safety Inspection and failed it. These reports include the timestamp, operator information, the exact reason the report was created, and details of the issue with the forklift.

Issue Reports

Issues reported since this truck was locked for maintenance.

Issues stay in history after the lock is cleared.

←

Add

10:14 am Jul 10, Carlos GomezInspection Item Failed

I consider this truck safe to operate. No

10:12 am Jul 10, Carlos GomezInspection Note

"Los frenos de emergencia se activan a veces durante unos segundos, sin ninguna razón aparente."

8:32 am Jul 10, John StevensInspection Item Failed

Any leaks or fluid under truck? Yes

8:24 am Jul 10, Steven JonesIssue Report

Other damage

"The terminal fell off during inspection."

15

The other way to access the history of reports is by opening the Control Panel and clicking the Issue Reports tile. This will bring the operator or supervisor to the same Issue Reports screen as when a supervisor attempts to lift a Maintenance Lock. (See image above)

Note that after reaching the Issue Reports screen, anyone can manually create a new report by clicking the Add button. This opens a new screen where the operator or supervisor enters the reason for the report; submitting it triggers the forklift to go under Maintenance Lock, and the new report also appears in the history. (See image below)

Maintenance Lock

Enter a reason to continue.

←

Lock

Due for scheduled service, taken out until Thursday

q w e r t z u i o p

a s d f g h j k l

^ y x c v b n m ←

123 , . ←

Issue Reports

Issues reported since this truck was locked for maintenance.

Issues stay in history after the lock is cleared.

8:32 am Jul 10, John Stevens

Manual Lock

Due for scheduled service, taken out until Thursday.

←

Add

2. The Importance of Safety Inspections

In terms of workplace safety, the Occupational Safety and Health Administration (OSHA) is the controlling authority in the United States responsible for setting and enforcing protective workplace safety and health standards.

OSHA standards are rules that describe the methods employers are legally required to follow to protect their workers from hazards. Before OSHA can issue a standard, it must go through a very extensive and lengthy process that includes substantial public engagement, notice and comment. The agency must show that a significant risk to workers exists and that there are feasible measures employers can take to protect their workers.

These standards, for example, limit the amount of hazardous chemicals workers can be exposed to, require the use of certain safe practices and equipment, and require employers to monitor certain workplace hazards.

OSHA's general industry powered industrial trucks standard at 29 CFR 1910.178 contains safety requirements relating to forklifts, tractors, platform lift trucks, motorized hand trucks, and other specialized industrial trucks powered by electric motors or internal combustion engines.

These material handling equipments are fundamental for a wide range of industries, but if not used properly, they could cause serious injuries and even fatalities.

The OSHA Standard 1910.178 covers numerous requirements for employers and employees to achieve a safe and healthful workplace.

One of the key requirements is the pre-shift inspections.

Section 1910.178(q)(7) reads:

Industrial trucks shall be examined before being placed in service, and shall not be placed in service if the examination shows any condition adversely affecting the safety of the vehicle. Such examination shall be made at least daily.

Where industrial trucks are used on a round-the-clock basis, they shall be examined after each shift. Defects when found shall be immediately reported and corrected.

This document is a handbook for the pre-shift inspection as part of the PoziTech SmarTruck system.

3. SmarTruck Forklift Safety Inspection

The following pre-shift inspection process not only aligns with the OSHA standards, but it is a far better solution for employers and employees than a paper-based process.

The SmarTruck solution provides a complex ecosystem for tracking, managing, and supporting logistics and storage processes carried out by using forklifts and other vehicles (MHEs). By making these processes transparent and properly documented, the SmarTruck solution can provide a solid base for analyzing the related processes and supporting optimization.

The card-based operator identification used by the SmarTruck system provides the possibility to manage the drivers' permissions; the system only allows the MHE to be used by drivers who have been previously authorized to.

This identification and authentication procedure can be used for digital pre-operation inspections. Inspections can be completed on portable handheld devices connected to the system, displaying a customized daily checklist specific to the type and drivetrain of the forklift under inspection. The operation of the forklift is restricted by the system until the inspection is completed. Furthermore, accurate logging provides clear accountability and objective responsibility.

4. Start Inspection

PoziTech Safety Inspection, part of the SmarTruck platform, ensures effortless compliance with OSHA regulations through digital pre-operation inspections.

Please note that this app is exclusively for existing clients of the PoziTech Safety Inspection solution and cannot be used without client-specific configuration and required SmarTruck hardware and software components.

To initiate the pre-shift inspection procedure, **authenticate yourself on the forklift you want to use:**

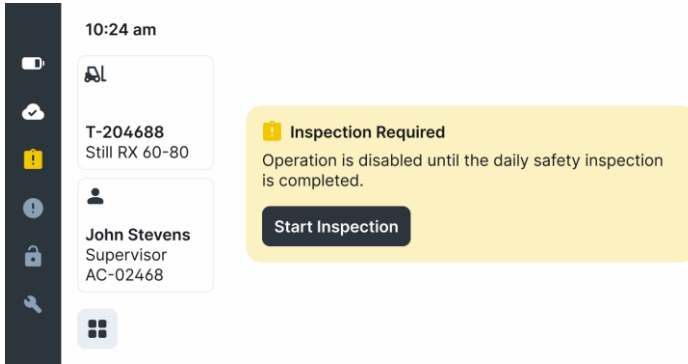
Scan your access card at the card reader on the forklift dashboard! To accomplish this, place your card into the reader's card holder. Please note that the card must remain in the holder during the entire forklift operation, as the system functions as an immobiliser.



Card reader on dashboard

If the forklift is ready for authentication, the card reader displays a solid or alternating blue light.

The card reader displays a solid green light upon authentication. Upon successful authentication, the mobile terminal should display the operator's basic information on the Home screen (on the left side of the screen, bottom tile). It is important to note that the mobile terminal should already be connected to the forklift even before the safety inspection begins, so no further action is required - this can be confirmed by checking the top tile, located above the section where the operator's details are shown.



The card reader displays a white flashing light if the authentication is successful and the pre-shift inspection is required and the screen displays a yellow Dashboard Card. A safety inspection is required each time a new shift begins or whenever a different operator starts using the forklift truck, regardless of whether the previous operator's shift has ended.

Please note that the feedback and alerts of the onboard card reader could vary from the above, depending on the functions implemented in the customers's PoziTech SmarTruck and SafeTruck systems. For more information, please contact your fleet manager.

After successful authentication and connection, the yellow Card for Inspection appears and the operator can proceed with the inspection by clicking on the Start Inspection button.

The app offers the option to conduct a new inspection if the inspector considers it necessary (e.g., if the operation of the forklift is questionable or the inspector is experiencing new damage or malfunction).

The inspection consists of a customized daily checklist specific to the type and drivetrain of the forklift under inspection and categorised for easier completion. Three main category appears: 1. Operator Fitness, 2. Walk Around, 3. At the Controls. (All presented in the preconfigured language)

A progress indicator at the top of the screen helps estimate the remaining time required to complete the inspection.

Operator fitness

Check each item and tap Yes or No.

Are you wearing safety toe shoes?

Yes

No

←

Next

Walk around

Check each item and tap Yes or No.

Any damage on the PIT?

Yes

No

Does PIT have any scrapes/scuffs?

Yes

No

Are wheels and tires damaged?

Yes

No

Any leaks or fluid under truck?

Yes

No

Guard/covers install, correct & secure?

Yes

No

←

Next

At the controls

Check each item and tap Yes or No.

Tether/belt/harness frayed or damaged?

Yes

No

Tether/belt/harness securely fastened?

Yes

No

Does harness # match equipment #?

Yes

No

Self test passes without fault code?

Yes

No

Emergency E stop ok?

Yes

No

←

Next

Typically, the items consist of single-choice questions with the following responses available: Yes / No.

It is important to note that some of these single-choice questions are Critical Questions. If the operator selects an answer other than the expected one for a Critical Question, the forklift will automatically be placed under Maintenance Lock, and the inspection will be marked as Failed. Operators will not know in advance which questions are Critical Questions. However, after answering each question, the responses are color-coded (**Green** for the expected answer and **Red** for the incorrect answer) giving operators a chance to review and change their answers before submitting.

The inspection then proceeds to an optional Notes segment, where the operator can leave any additional comments regarding the forklift. These notes are saved with the inspection and can be reviewed later (see section 1.3 Issue Reports for more information).

Notes

Actions taken or things noticed?

←

Next

The terminal fell off dur

q w e r t z u i o p

a s d f g h j k l

^ y x c v b n m ←

123 , . ←

In the final step, the operator confirms the inspection statement to complete the inspection by tapping the related button (Done button), but before that the operator is given a final opportunity to indicate whether they believe the forklift is safe to use, by selecting Yes or No.

Statement

Review and confirm the statement.

Inspector

John Doe

WSZL-002468

Truck

T-204688

Still RX 60-80

Completed

Jul 10 2026

8:48 am

I hereby certify that I have conducted this safety inspection, physically checked every item I was asked about and recorded every issue I found.

I consider this truck safe to operate.

Yes

No

←

Done

If the operator selects No, the forklift will automatically be placed under Maintenance Lock, and the Safety Inspection will be marked as Failed.

After successfully submitting the inspection, any authenticated employee can operate the given forklift until the end of their shift. Then the operator will return to the Home screen and see the following:

10:24 am

T-204688

Still RX 60-80

John Stevens

Supervisor

AC-02468

Ready for Operation

Safety inspection completed and passed.

by John Stevens, 8:48 am, Jul 10

The card reader indicates the inspected state of the forklift with a solid green light upon authentication.

The Inspection status will always be indicated on the Home screen as a Dashboard Card. The Home screen also indicates the Maintenance Lock status, if applicable, along with the actions required to release the lock.

See **Subsection 1.2 Dashboard Cards** for more information.