

Operator's manual

Liebherr Assistance Systems
Mining excavators

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"Joystick" button 4

Special control mode.

- ▶ Refer to the section "Operate the Truck Loading Assistant" that follows.

Truck selection 5

Button to open the truck selection page. Then, this field shows the truck number and the capacity of the selected truck.

Bucket payload 6

Tonnes of material in the bucket.

Truck payload 7

Tonnes of material in the truck dump body.

Bucket teeth position 8

Distance (in meters) between the end of the bucket teeth and the bottom of the track pads.

Operate the Truck Loading Assistant

You can operate the Truck Loading Assistant with:

- The touchscreen
- The joystick.

Touchscreen

The touchscreen mode always stays on. You can always operate the Truck Loading Assistant with this mode.

Control with the joystick

With this control mode, also called "**Action wheel**", it is not necessary to release the joysticks to operate some functions of the Truck Loading Assistant.

Turn on the "Action wheel"

- ▶ Tap the "Joystick" button.
 - ↳ The "**Action wheel**" is turned on.
 - ↳ The control wheel 1 comes on next to the "Joystick" button.

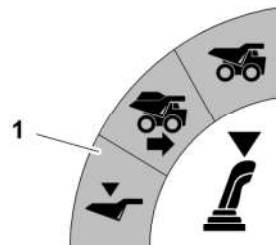


Fig. 3-3 Control wheel

1 Control wheel

- ▶ Tap the "Joystick" button again.
 - ↳ The "**Action wheel**" is turned off.

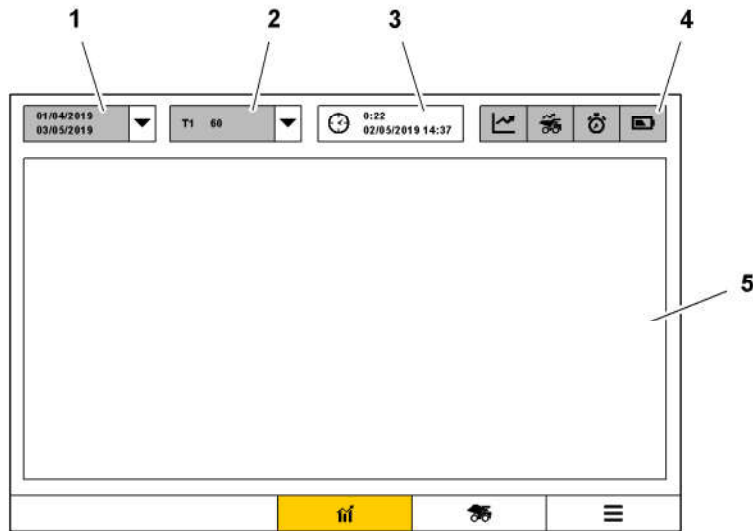


Fig. 3-16 Main page

- | | | | |
|---|------------------------|---|--------------------------------|
| 1 | Analysis-period filter | 4 | Performance categories toolbar |
| 2 | Truck filter | 5 | Performance data field |
| 3 | Time information | | |

- ▶ Tap the "**Analysis-period filter**" button **1** to filter the performance data by different periods.
 - ↳ The "**Time information**" field **3** shows related information.
- ▶ Tap the "**Truck filter**" button **2** to select the truck for which you want see the performance data. You can also see all the trucks.

The toolbar **4** gives access to the performance categories that follow.

- ▶ Refer to the related section below for the detailed description of each category.



Category "Production overview"



Category "Loading Key Performance Indicators (KPI)"



Category "Time distribution"



Category "Energy efficiency"

- ▶ In the toolbar **4**, tap the performance category that you want to analyze.
 - ↳ Then, the field **5** shows the related performance data.

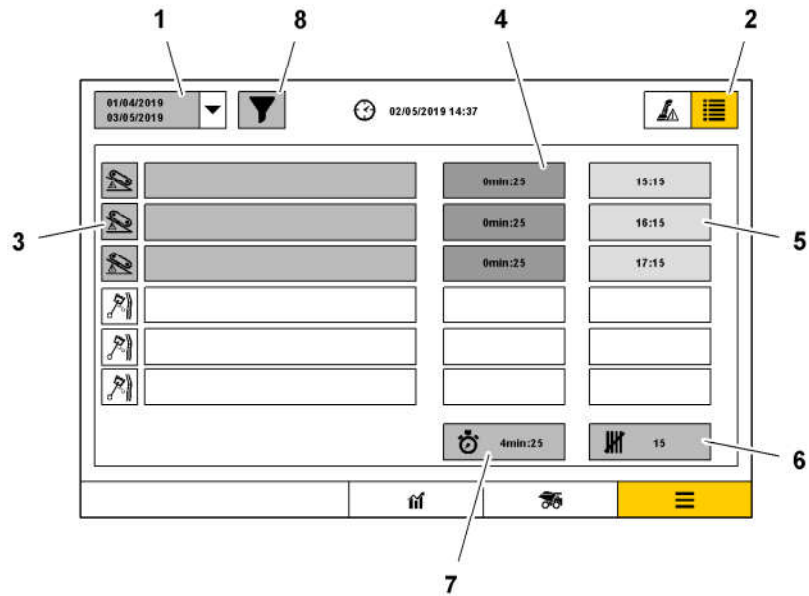


Fig. 3-24 Operational Conformance logbook

- | | | | |
|---|--------------------------|---|---------------------------------|
| 1 | Analysis-period filter | 5 | Field 3 related occurrence time |
| 2 | Display mode selection | 6 | Total number |
| 3 | Symbol and description | 7 | Total duration |
| 4 | Field 3 related duration | 8 | Filter |

► Tap the "**Analysis-period filter**" button 1 to filter the specified events by different periods.



► Tap the "**Display mode selection**" button 2 to select the Operational Conformance logbook.

↳ The display shows all the occurred specified events and their descriptions (fields 3).

↳ For each occurred specified event and for the period you select, you can see:

- The duration 4
- The occurrence time 5.

This page also gives:

- The total number 6 of occurred specified events
- The total time 7 during which the specified events were present.

► Tap the "**Filter**" button 8 to display the list of specified events filtered by types.



Note!

This list shows the specified events for a one year period. Then, they are aggregated.

2 Program version**4** Program release date

There are different program types **1**:

– "**Firmware**":

Programs installed permanently in a hardware device (for example: a printed circuit board).

– "**Software**":

Computer programs.

– "**Tool**":

Programs that are necessary to operate other programs.



This symbol is shown when the program version **2** is released.

4.3 Advanced additional functions

The advanced additional functions that follow are available from the "**Other menu**" button:



- The Data Export, which lets you export specified data that are recorded in the system.



- The Parameters Center, which lets you read and change some parameters of the machine.



- The System Update, which lets you update programs and software of the machine from the assistance system display.

Depending on the access level of your user account, you can have limited access to some functions. Thus, if the access level of your user account is not sufficient to see an information or to use a command, you cannot see it.

- ▶ For more information on the advanced additional functions and the related instructions, refer to the Service manual.

4.4 Advanced monitoring display

Some types of machines have a monitoring display with monochrome LCD screen or non-touchscreen display. In this case, the display that is specially installed for the assistance systems gives also access to an advanced monitoring interface.

Information notifications

Information notifications are only shown on the event logbook page. Information notifications have an information code, a date, a time, a description and a category.

Page content

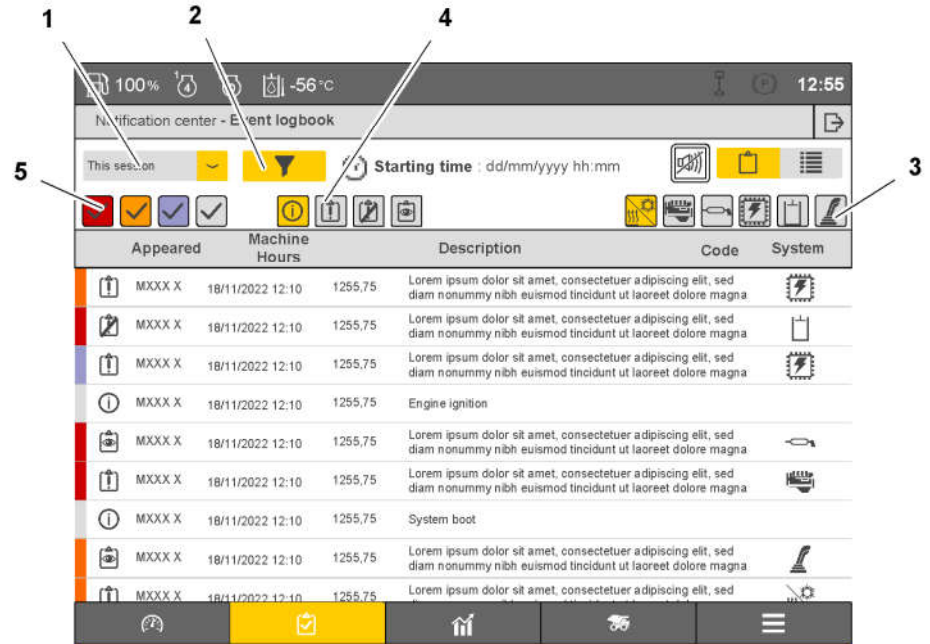


Fig. 4-18 Event logbook

- | | | | |
|---|--|---|----------------------------|
| 1 | Time span | 3 | Event type |
| 2 | Filter | 4 | Error / information status |
| 5 | Event warning level (error or information) | | |

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