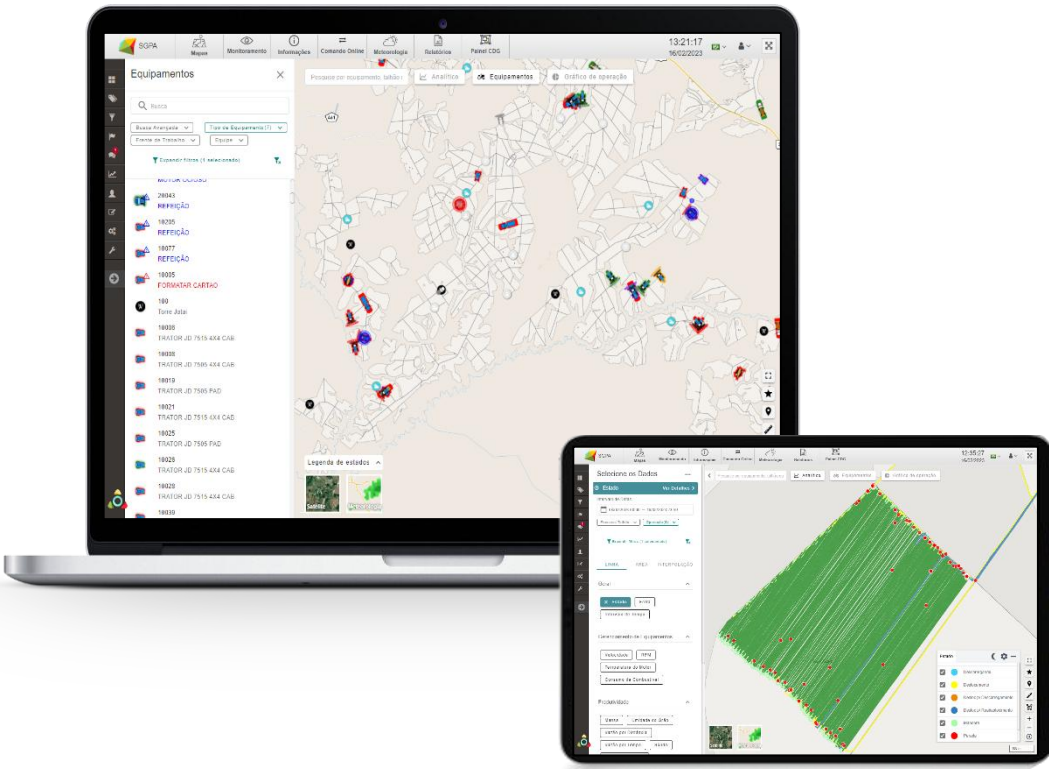
Changelog

SGPA3

Automated Process Management System



Changelog Version 2025/262
Period: 05/27/2025 to 06/02/2025
Revision 00
Date: 06/17/2025

Some applications mentioned in this report may not be available in the feature pack in your SGPA 3.0

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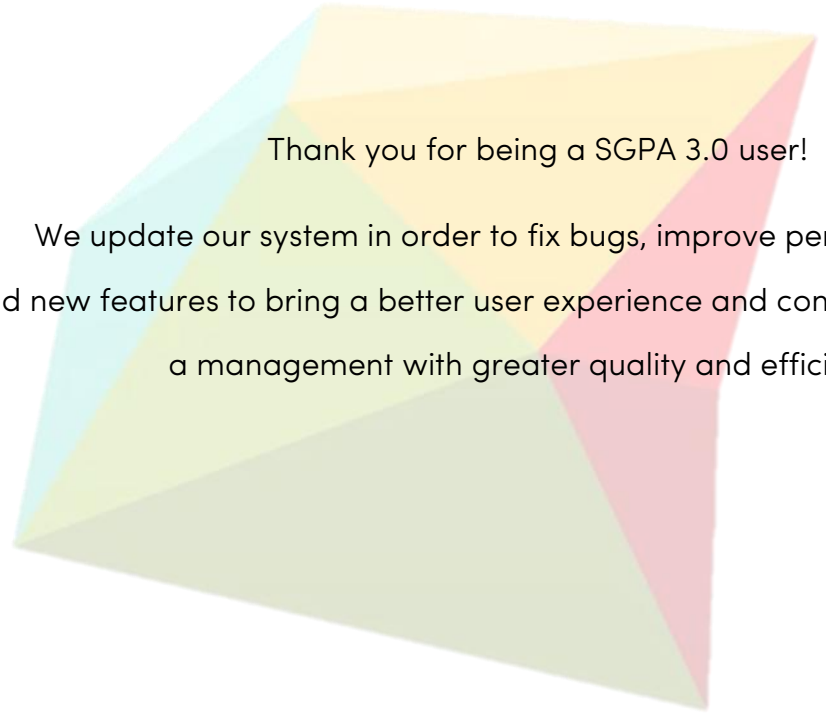

Thank you for being a SGPA 3.0 user!

We update our system in order to fix bugs, improve performance and add new features to bring a better user experience and contribute to a management with greater quality and efficiency.

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1. SGPA3

1.1 Improvements

1.1.1 Maps – Depthmeter

In order to optimize the analysis of sugarcane crop productivity data, a new analytical map, the "Depthmeter", was implemented, with "Line" and "Interpolation" visualization. This map aims to present the data from the **soil depth sensor** present in the Implements, that is, to measure the resistance or compaction in different layers, indicating how much the subsoiling or harrowing implement penetrated the ground. The map displays this depth spatially, allowing analytical monitoring of the operation, helping to identify compacted areas and guiding specific interventions, thus optimizing soil management and operational efficiency.

Image 01 – Line View of the "Depthmeter" Map

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Image 02 – Displaying "Depthmeter" values in the Details menu

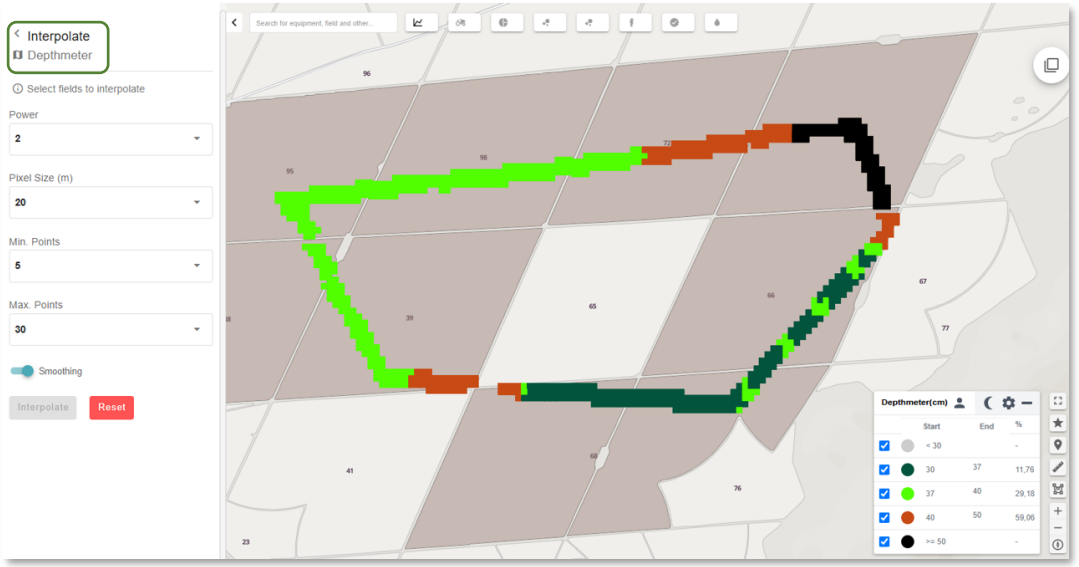

Image 03 – Interpolation View of the "Depthmeter" Map

Go to Top menu > Maps > Line and Interpolation > Productivity > Depthmeter

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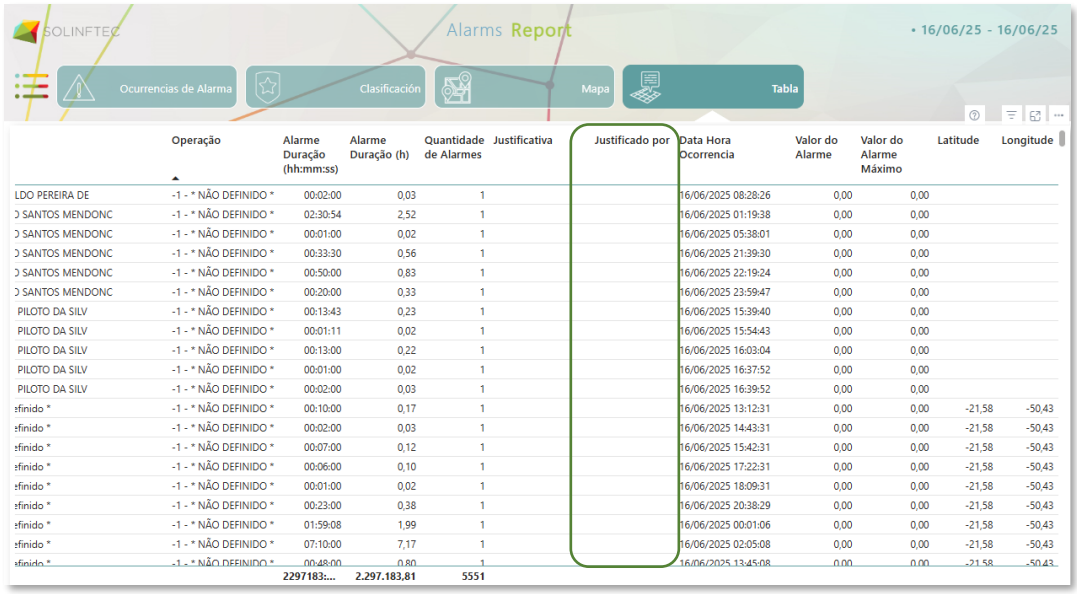
1.1.2 PBI Reports - Alarms

Improvement applied to the PBI "Alarms" Report, from the Sugarcane, Grains and Perennials Verticals, to add the "Justified by" column, in the "Table" tab. With this new column, it is possible to check which user performed the Alarm Justification.



	Operação	Alarme Duração (hh:mm:ss)	Alarme Duração (h)	Quantidade de Alarmes	Justificativa	Justificado por	Data Hora Ocorrencia	Valor do Alarme	Valor do Alarme Máximo	Latitude	Longitude
LDO PEREIRA DE	-1 - * NÃO DEFINIDO *	00:02:00	0,03	1			16/06/2025 08:28:26	0,00	0,00		
O SANTOS MENDONC	-1 - * NÃO DEFINIDO *	02:30:54	2,52	1			16/06/2025 01:19:38	0,00	0,00		
O SANTOS MENDONC	-1 - * NÃO DEFINIDO *	00:01:00	0,02	1			16/06/2025 05:38:01	0,00	0,00		
O SANTOS MENDONC	-1 - * NÃO DEFINIDO *	00:33:30	0,56	1			16/06/2025 21:39:30	0,00	0,00		
O SANTOS MENDONC	-1 - * NÃO DEFINIDO *	00:50:00	0,83	1			16/06/2025 22:19:24	0,00	0,00		
O SANTOS MENDONC	-1 - * NÃO DEFINIDO *	00:20:00	0,33	1			16/06/2025 23:59:47	0,00	0,00		
PILOTO DA SILV	-1 - * NÃO DEFINIDO *	00:13:43	0,23	1			16/06/2025 15:39:40	0,00	0,00		
PILOTO DA SILV	-1 - * NÃO DEFINIDO *	00:01:11	0,02	1			16/06/2025 15:54:43	0,00	0,00		
PILOTO DA SILV	-1 - * NÃO DEFINIDO *	00:13:00	0,22	1			16/06/2025 16:03:04	0,00	0,00		
PILOTO DA SILV	-1 - * NÃO DEFINIDO *	00:01:00	0,02	1			16/06/2025 16:37:52	0,00	0,00		
PILOTO DA SILV	-1 - * NÃO DEFINIDO *	00:02:00	0,03	1			16/06/2025 16:39:52	0,00	0,00		
finido *	-1 - * NÃO DEFINIDO *	00:10:00	0,17	1			16/06/2025 13:12:31	0,00	0,00	-21,58	-50,43
finido *	-1 - * NÃO DEFINIDO *	00:02:00	0,03	1			16/06/2025 14:43:31	0,00	0,00	-21,58	-50,43
finido *	-1 - * NÃO DEFINIDO *	00:07:00	0,12	1			16/06/2025 15:42:31	0,00	0,00	-21,58	-50,43
finido *	-1 - * NÃO DEFINIDO *	00:06:00	0,10	1			16/06/2025 17:22:31	0,00	0,00	-21,58	-50,43
finido *	-1 - * NÃO DEFINIDO *	00:01:00	0,02	1			16/06/2025 18:09:31	0,00	0,00	-21,58	-50,43
finido *	-1 - * NÃO DEFINIDO *	00:23:00	0,38	1			16/06/2025 20:38:29	0,00	0,00	-21,58	-50,43
finido *	-1 - * NÃO DEFINIDO *	01:59:08	1,99	1			16/06/2025 00:01:06	0,00	0,00	-21,58	-50,43
finido *	-1 - * NÃO DEFINIDO *	07:10:00	7,17	1			16/06/2025 02:05:08	0,00	0,00	-21,58	-50,43
finido *	-1 - * NÃO DEFINIDO *	00:48:00	0,80	1			16/06/2025 13:45:08	0,00	0,00	-21,58	-50,43
		2297183:...	2.297.183,81	5551							

Image 04 – PBI "Alarms" report displaying the "Justified by" column in the "Table" tab

Go to Main Menu > Reports > PBI > Online Command and Alarms Menu > Alarms > Table Tab > Justify by Column

Available for Sugarcane, Grains and Perennials Vertical Environments.

1.1.3 PBI Reports – Harvester Benchmark

Improvements made to the PBI "Harvester Benchmark" Report, for the Sugarcane Vertical. As of this version, in addition to the existing "Top 10" button, a new view has been included, "Top 10 Ranking", with an updated visual identity to

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highlight the best-ranked units in a more intuitive and attractive way. The improvement aims to make it easier to read and compare performance between units, making the analysis more practical and visual.

Image 05 – "Benchmark Harvester" report showing "Top 10" and "Top 10 Ranking" options in the "Benchmark" tab

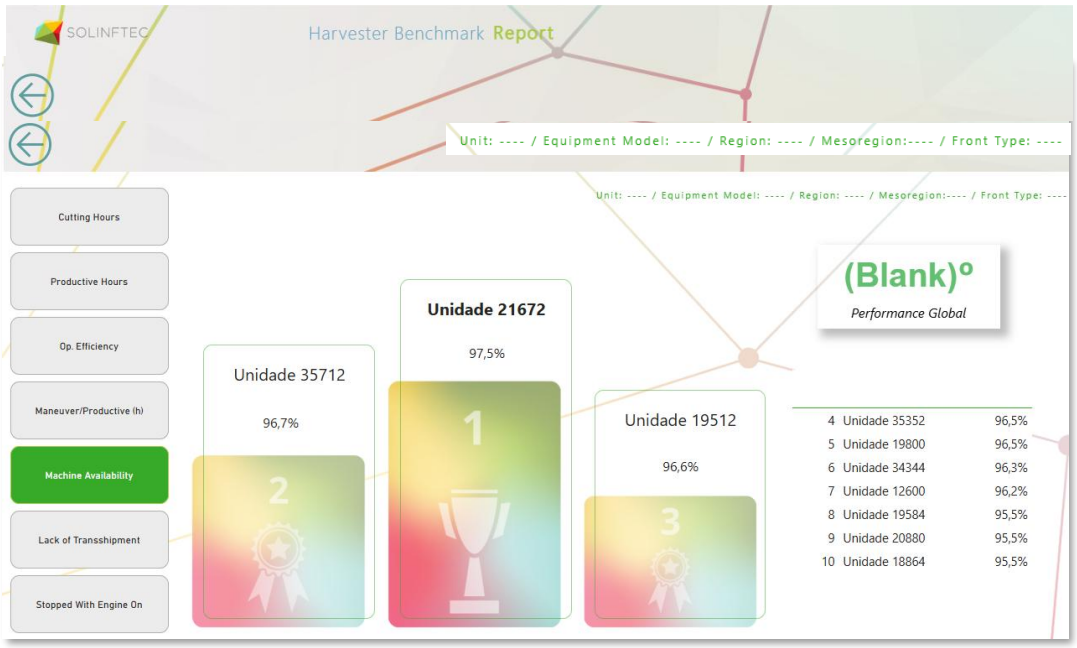

Image 06 – Overview of the "Top 10 Ranking" in the "Harvester Benchmark" report

In addition, the PBI "Harvester Benchmark" Report has received an update to the Outlier Rule for Mechanical Availability. The update is described below:

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- The maximum limit, which was previously 95%, is now 98%, meaning that values above 98% will be considered outliers and will not be displayed in the indicators, ensuring greater accuracy and avoiding distortions. This change reflects the continuous improvement in the performance of the units. The new limit allows real data to be monitored in a way that is more consistent with the current reality.

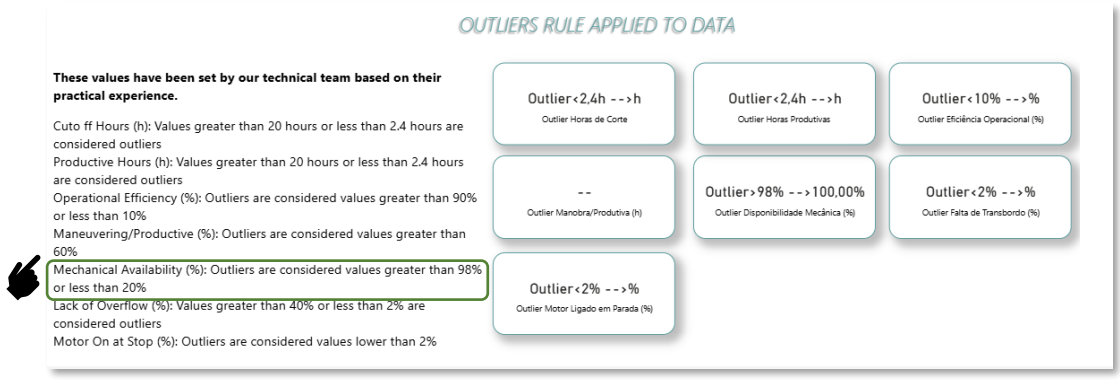

Image 07 – New Outlier Rule for Mechanical Availability

Go to Main Menu > Reports > PBI > Benchmark Menu > Harvester Benchmark > Benchmark Tab > Top right corner > Top 10 Ranking Option and in Harvester Benchmark > Benchmark Tab > Top right corner > "i" Icon > Outliers Rule Applied to Data > Mechanical Availability

Available for Sugarcane Vertical Environments that have the "Benchmark" solution active.

1.1.4 PBI Reports and Maps – CDA – Digital Cotton Certificate

Improvement applied to the PBI Report "Digital Cotton Certificate", from Grains Vertical, so that the data on "Number of Modules per Control Point" matches the "Traceability" data provided in the "CDA" module of Maps.

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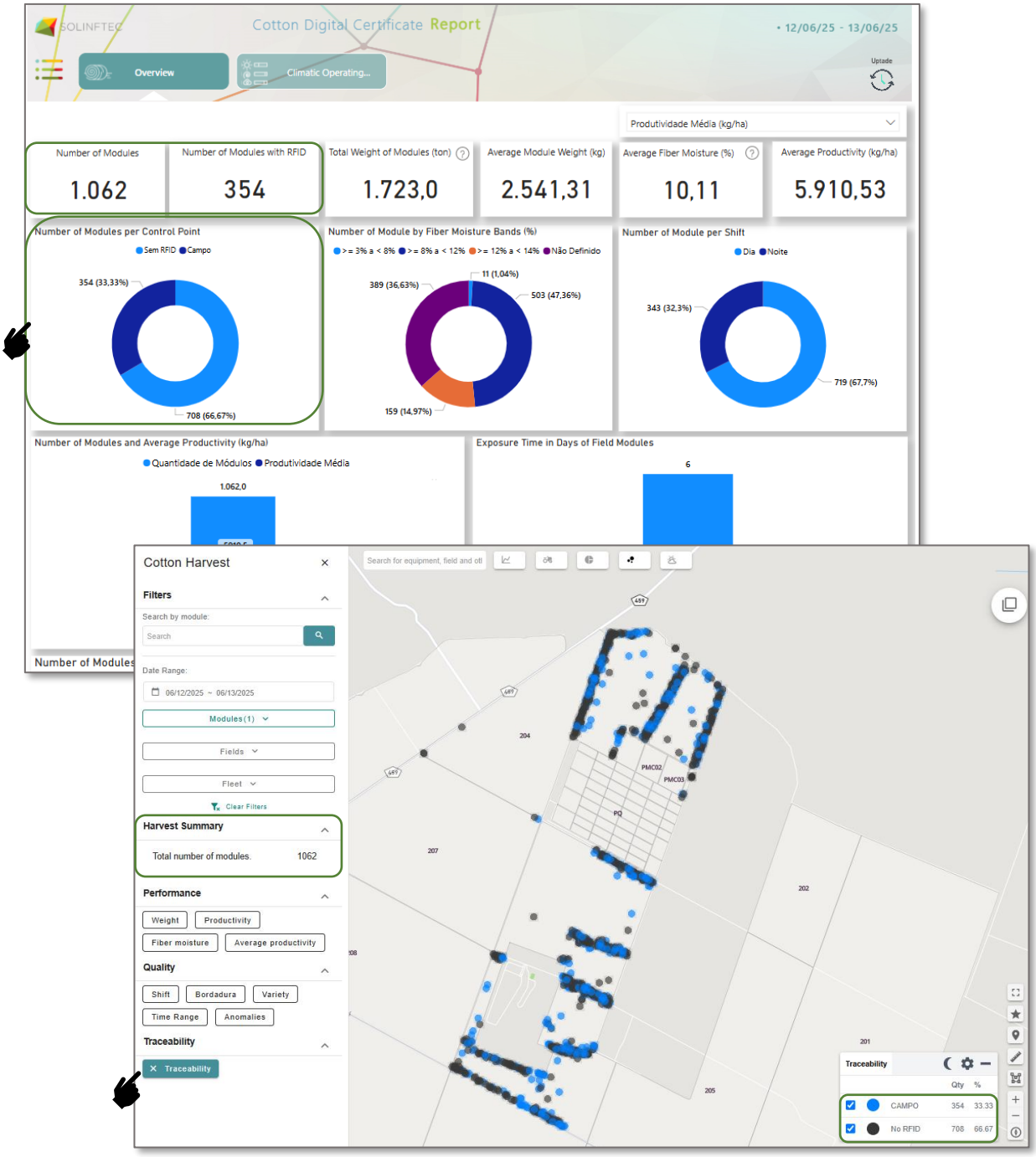

Images 08 and 09 – PBI "Digital Cotton Certificate" report and "CDA" module of maps displaying equivalent data

Go to Main menu > Reports > PBI > Digital Cotton Certificate and in Top menu > Maps > Top menu within the map > CDA

Available for Grains Vertical Environments that have the "CDA - Digital Cotton Certificate" solution active. Applied on 06/10/2025.

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1.1.5 PBI Reports – Efficiency (Grains)

New PBI "Efficiency" Report implemented for the Grains Vertical. This report makes it possible to identify opportunities for improvement and minimize waste or inefficiencies in the operational process. The report provides a broad view of the performance of operations, bringing together several analyses, such as:

- Performance indicators by equipment and operation.
- Efficiency comparisons between different periods.
- Points of attention that may be impacting performance.

The report is divided into 9 (nine) tabs, namely: "General", "Operational", "Energy", "Management", "Mechanical Availability", "Engine Idling", "No Recording", "Operational Area", "Operational Quality", "Workday Utilization" and "Analytical View".

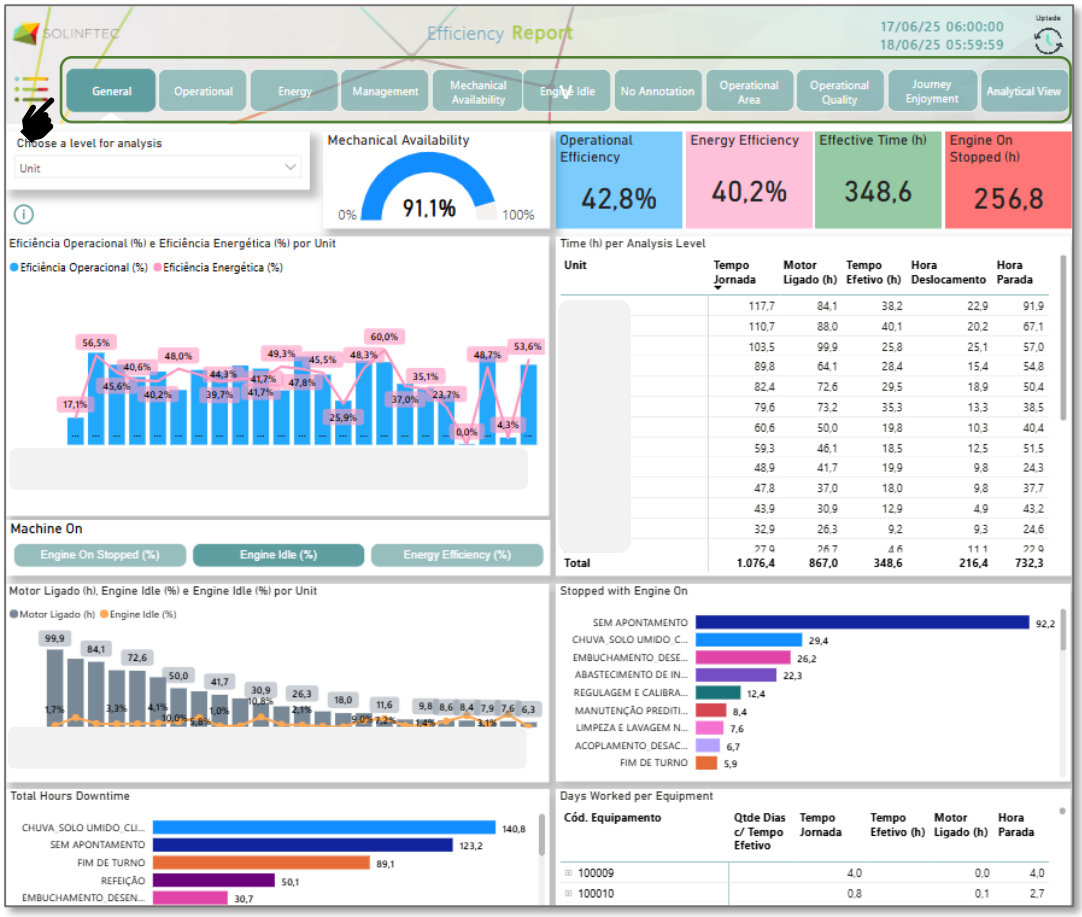

Image 10 – View of the "Efficiency" report with the "General" tab selected

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Go to Main menu > Reports > PBI > Efficiency

Applied on 06/09/2025. Available for the Grains Vertical Environments.

1.1.6 PBI Reports – Forest Efficiency (Perennials)

The new PBI "Forest Efficiency" Report has been implemented for the Perennials Vertical. This report is based on the "Efficiency" report already available for this vertical, maintaining the same information base but presenting a simplification of management indicators, with a view focused on road operations and timber shipments.

The report is divided into 9 (nine) tabs, which are: "Operational Efficiency", "Loaded / Available Time", "Energy Efficiency", "Loaded / Engine On", "No Recording", "Engine Idling / On Stopped", "Average Consumption", "Machine Availability" and "Summary by Equipment".

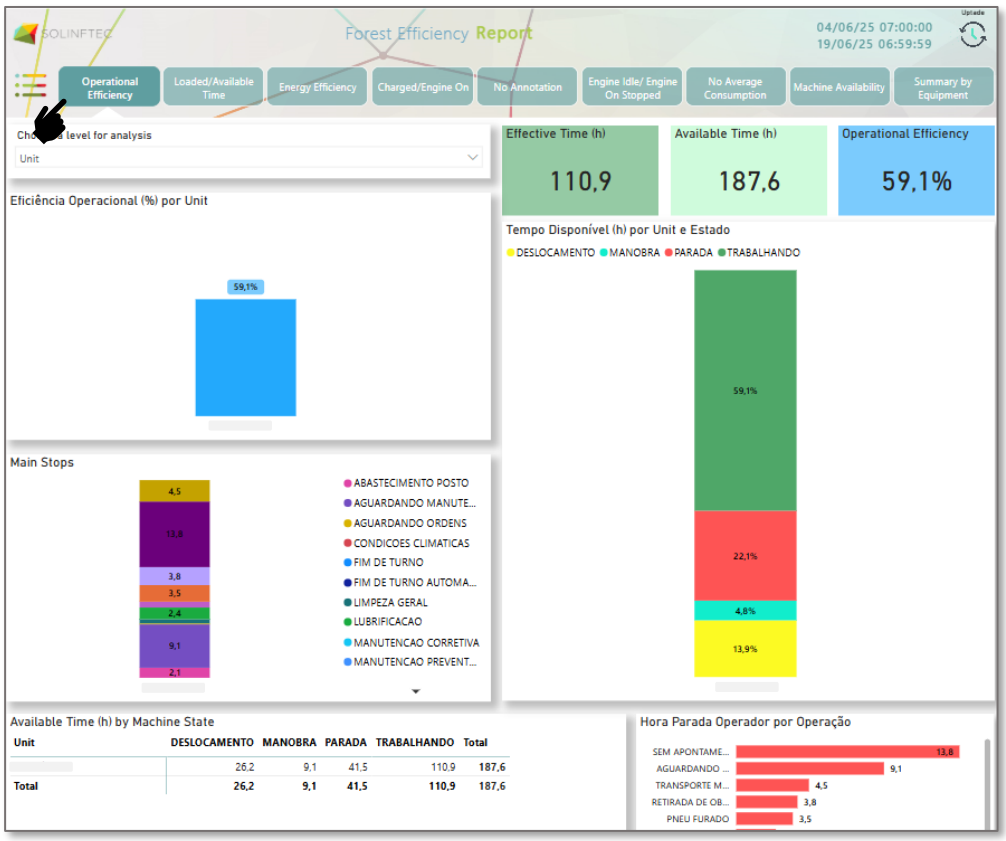

Image 11 – Overview of the "Operational Efficiency" tab in the "Forest Efficiency" report

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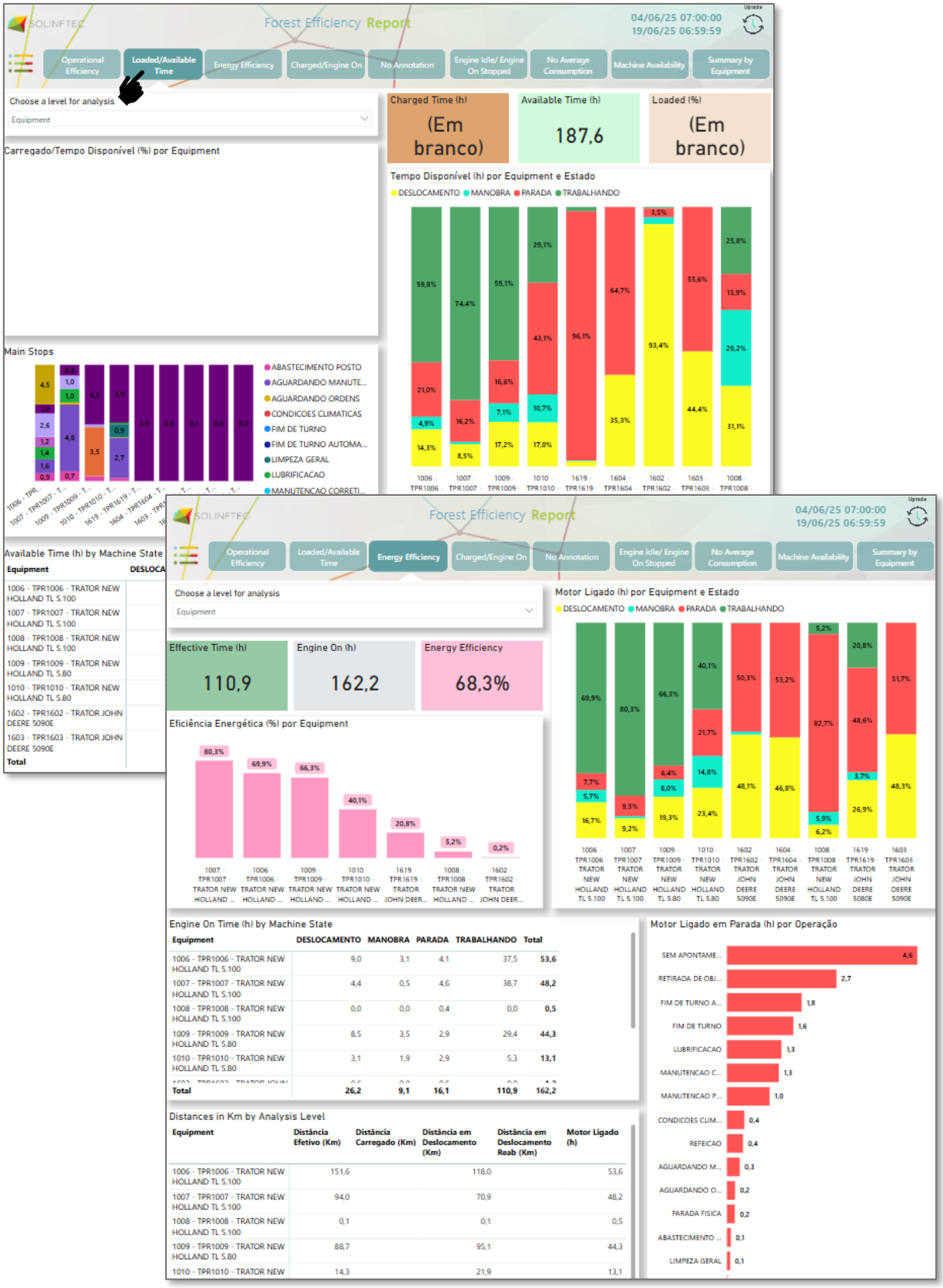

Image 12 - Overview of the "Loaded / Available Time" tab in the "Forest Efficiency" report

Image 13 – Overview of the "Energy Efficiency" tab in the "Forest Efficiency" report

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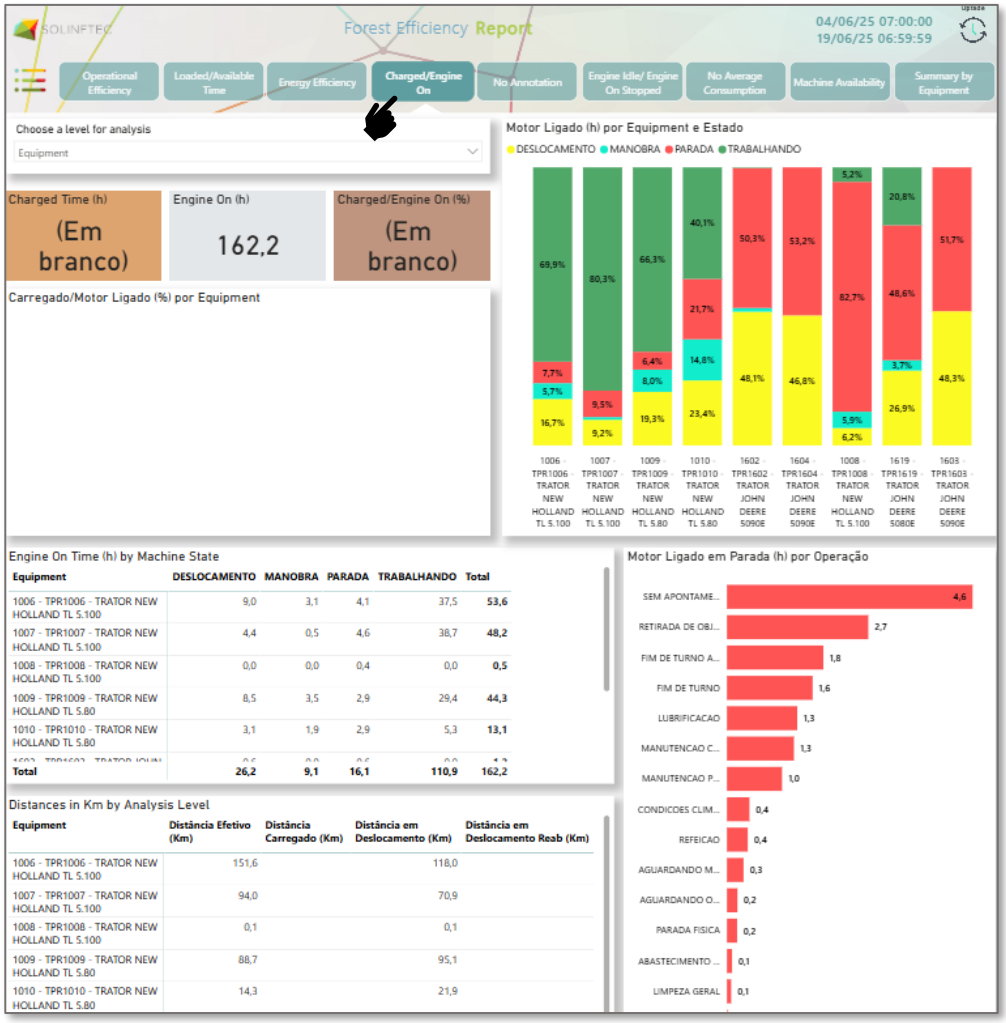

Image 14 – Overview of the "Loaded / Engine Running" tab in the "Forest Efficiency" report

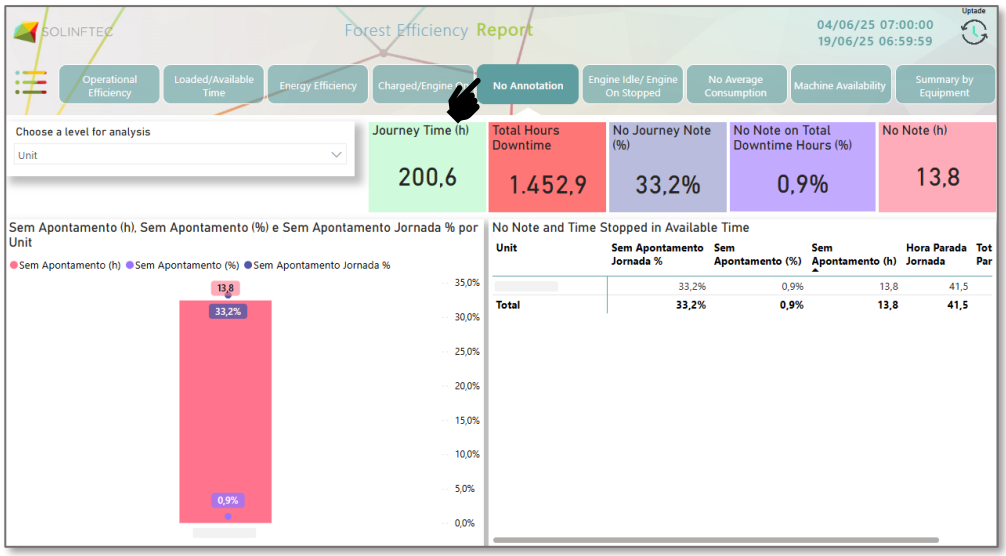

Image 15 – Overview of the "No entries" tab in the "Forest Efficiency" report

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Image 16 – Overview of the "Engine Idling /On Stopped" tab in the "Forest Efficiency" report

Image 17 – Overview of the "Average Consumption" tab in the "Forest Efficiency" report

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Image 18 – Overview of the "Machine Availability" tab in the "Forest Efficiency" report

Image 19 – Overview of the "Summary by Equipment" tab in the "Forest Efficiency" report

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Go to Main menu > Reports > PBI > Forest Efficiency

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1.1.7 PBI Reports – Application of Fertigation

Improvement applied to the PBI Report "Application of Fertigation", of the Sugarcane Vertical, to add two new tabs: "Status", containing status graphs, and the "Status Table" tab, with descriptions of each status. These additions aim to facilitate the identification of inconsistencies in the data and ensure a more accurate analysis.

➢ **Status Definitions**

In the "Status" tab, each line of data will be classified according to the integration status between the Spool (Hydro Roll) and the Stretcher Tractor. The statuses are:

- Waiting for Processing: When the data from both devices has arrived, but 24 hours have not yet passed since the last data arrived.
- Waiting for Stretcher Tractor Data: The Spool (Hydro Roll) data has arrived, but there are still no records of the Stretcher Tractor.
- Waiting for Spool Data: The data from the Stretcher Tractor has arrived, but there are still no records from the Spool (Hydro Roll).
- Spool Data with No Pressure Value: Spool (Hydro Roll) data has arrived, but the pressure field is zero (0) in all received data.
- Spool Data without Pressure Sensor Registration: Data from both devices is available, but there is no Pressure Sensor registered for the Spool (Hydro Roll).
- Spool Data without Sprinkler Factor Registration: Data from both equipment is available, but there is no Sprinkler Factor registered for the Spool (Hydro Roll).

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- Complete: Data has passed all validations and is ready for analysis.

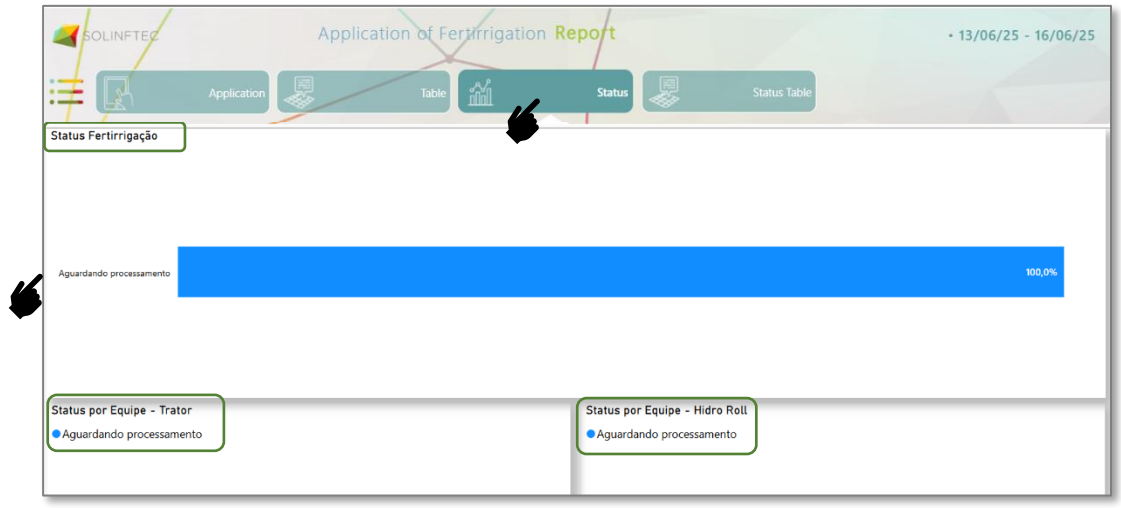

Image 20 – Overview of the new "Status" tab in the "Application of Fertigation" report

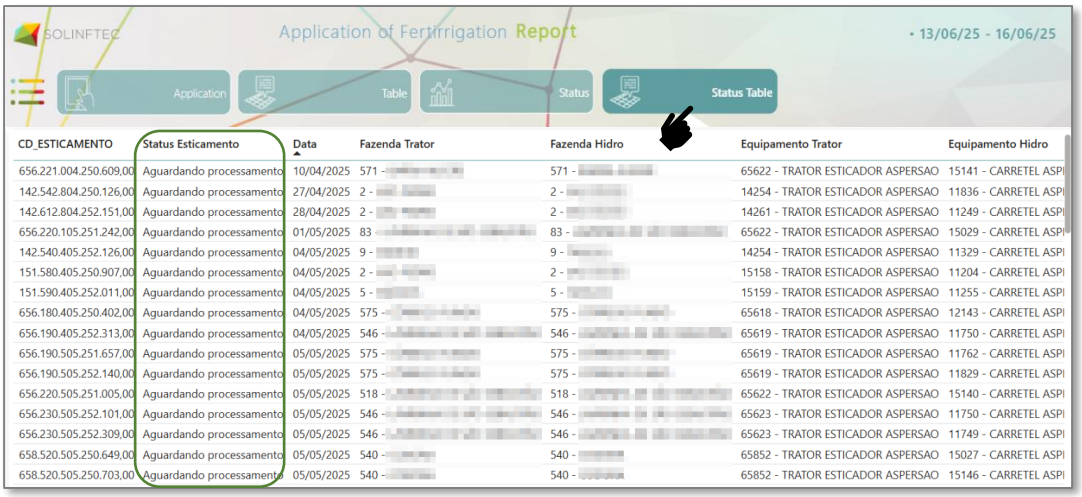

Image 21 – Overview of the new "Status Table" tab in the "Application of Fertigation" report

Go to Main Menu > Reports > PBI > Application of Fertigation > Status and Status Table Tabs

Applied on 06/09/2025. Available for Sugarcane Vertical Environments that have the "Sprinkler Fertigation" solution active.

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1.2 Bugs

1.2.1 Maps – Analytical

Adjustment made to the Analytical Map, on "Line" maps, to display only lines with values corresponding to the values selected in the Legend, that is, when selecting and removing intervals in the Legend, the information is updated on the map.

Go to Top menu > Maps > Lines > Legend

1.2.2 Modules - Telemetry

Adjustment made in the "Telemetry" module, in the "Group by Equipment Type" view of the dashboard's home screen, in order to display only equipment configured with the types "1 – Harvester", "2 – Transshipment" and "40- Light Tire Tractor". In addition, in the Sensors tab, it was changed to display Hourmeter data with the maximum value.

Go to Top menu > Telemetry > Group by > Equipment Type > Equipment > Equipment > Sensors Tab > Hourmeter

Available for Environments that have the "Telemetry" solution active.

1.2.3 PBI Reports – Filters

Adjustment applied to PBI Reports to correctly display data in the "Equipment Group" filter.

Go to Main Menu > Reports > PBI > Filters > Equipment Group

Applied on 06/13/2025.

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