

Changelog

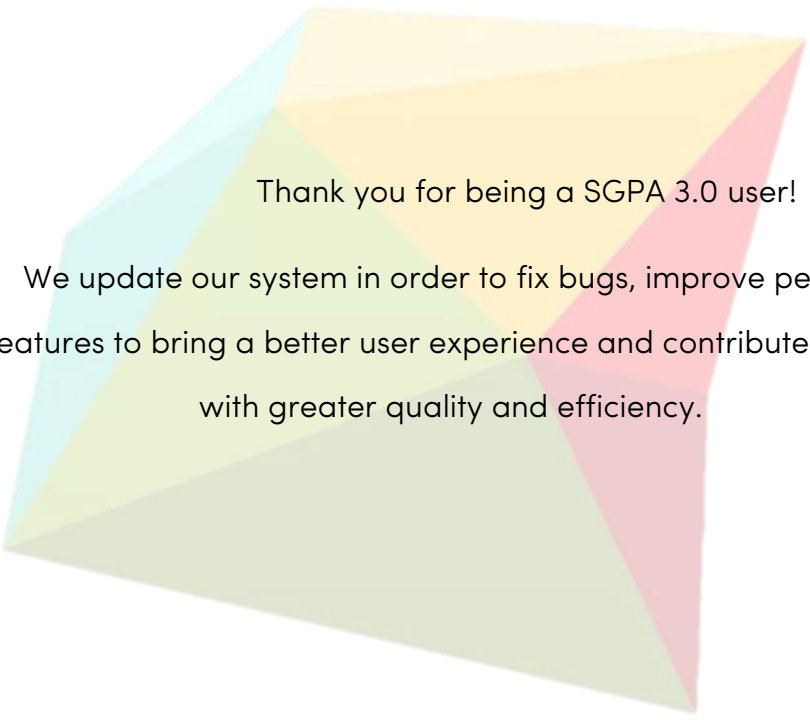
SGPA3

Automated Process Management System



Changelog Version 2024/224
 Period: 04/09/2024 to 04/15/2024
 Revision 00
 Date: 04/23/2024

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



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 management with greater quality and efficiency.

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1. SGPA3

1.1 New Features

1.1.1 Records and PBI Report – LTT Benchmark (Grains and Perennials)

Aiming to improve data management for Grain and Perennial Verticals, it was implemented the “Benchmark” Registry and the “LTT Benchmark” PBI Report.

1.1.1.1 Records – Benchmark

The “Benchmark” registration was implemented with the aim of standardizing **Equipment Model**, **Operation**, **Equipment Group** and **Culture data**. The registration is divided into tabs, where four types of registration will be made, they are: “Equipment Model Links”, “Operational Links”, “Equipment Group Links” and “Unit Classification by Vertical.”

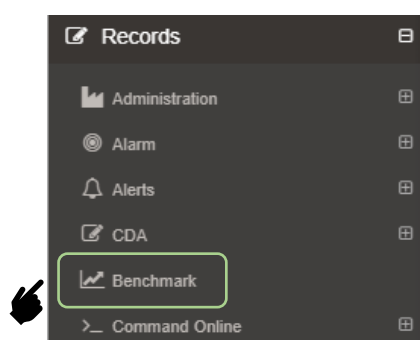
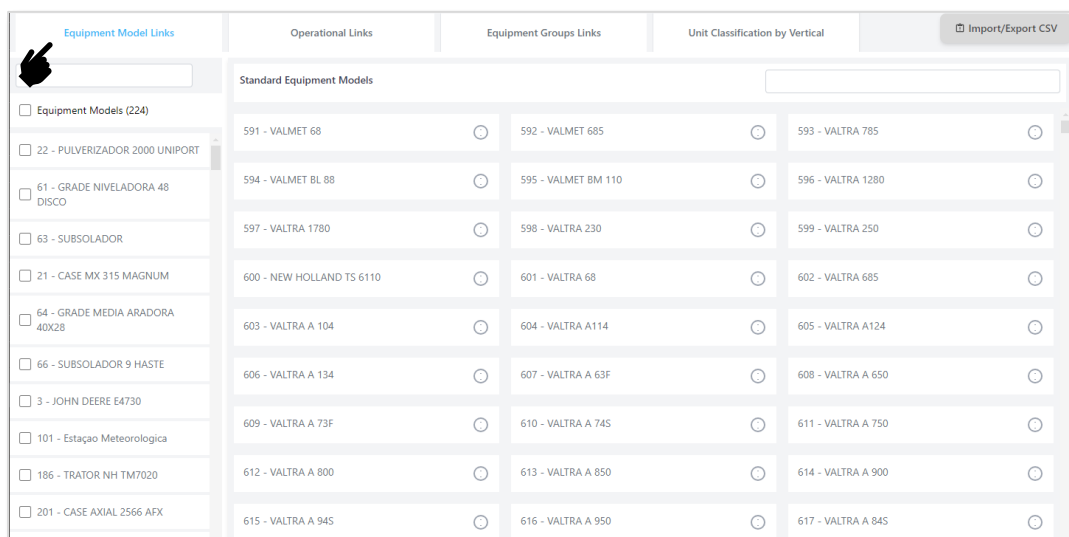
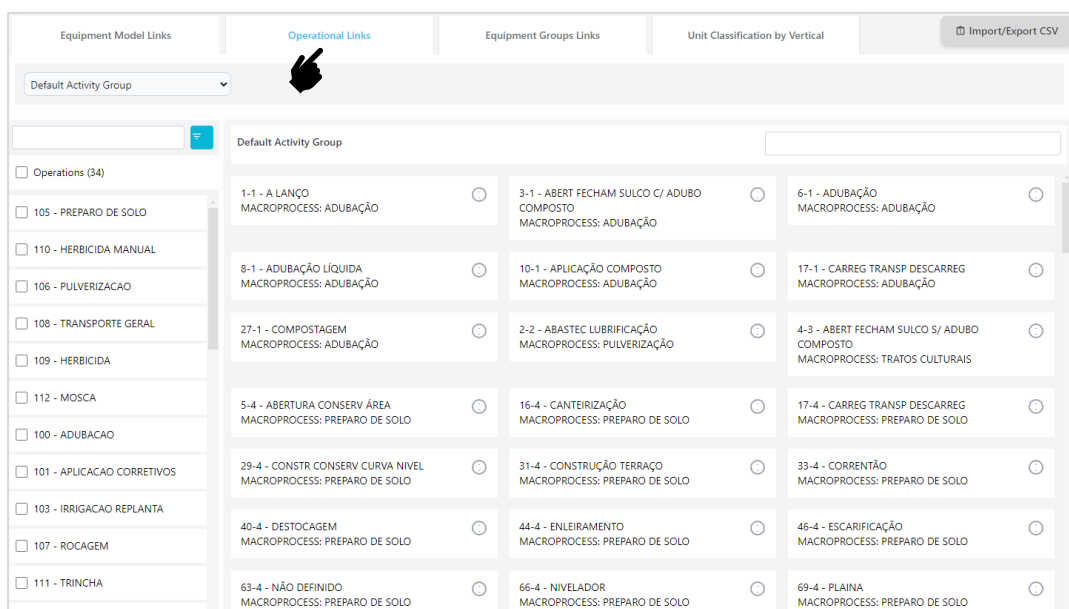


Image 01 – Benchmark register access button



Equipment Model Links	Operational Links	Equipment Groups Links	Unit Classification by Vertical
<input type="checkbox"/> Equipment Models (224) <input type="checkbox"/> 22 - PULVERIZADOR 2000 UNIPOINT <input type="checkbox"/> 61 - GRADE NIVELADORA 48 DISCO <input type="checkbox"/> 63 - SUBSOLADOR <input type="checkbox"/> 21 - CASE MX 315 MAGNUM <input type="checkbox"/> 64 - GRADE MEDIA ARADORA 40X28 <input type="checkbox"/> 66 - SUBSOLADOR 9 HASTE <input type="checkbox"/> 3 - JOHN DEERE E4730 <input type="checkbox"/> 101 - Estação Meteorológica <input type="checkbox"/> 186 - TRATOR NH TM7020 <input type="checkbox"/> 201 - CASE AXIAL 2566 AFX	Standard Equipment Models 591 - VALMET 68 594 - VALMET BL 88 597 - VALTRA 1780 600 - NEW HOLLAND TS 6110 603 - VALTRA A 104 606 - VALTRA A 134 609 - VALTRA A 73F 612 - VALTRA A 800 615 - VALTRA A 945	592 - VALMET 685 595 - VALMET BM 110 598 - VALTRA 230 601 - VALTRA 68 604 - VALTRA A114 607 - VALTRA A 63F 610 - VALTRA A 74S 613 - VALTRA A 850 616 - VALTRA A 950	593 - VALTRA 785 596 - VALTRA 1280 599 - VALTRA 250 602 - VALTRA 685 605 - VALTRA A124 608 - VALTRA A 650 611 - VALTRA A 750 614 - VALTRA A 900 617 - VALTRA A 845

Image 02 – “Equipment Model Links” tab in the Benchmark Registration



Equipment Model Links	Operational Links	Equipment Groups Links	Unit Classification by Vertical
<input type="checkbox"/> Operations (34) <input type="checkbox"/> 105 - PREPARO DE SOLO <input type="checkbox"/> 110 - HERBICIDA MANUAL <input type="checkbox"/> 106 - PULVERIZACAO <input type="checkbox"/> 108 - TRANSPORTE GERAL <input type="checkbox"/> 109 - HERBICIDA <input type="checkbox"/> 112 - MOSCA <input type="checkbox"/> 100 - ADUBACAO <input type="checkbox"/> 101 - APLICACAO CORRETIVOS <input type="checkbox"/> 103 - IRRIGACAO REPLANTA <input type="checkbox"/> 107 - ROCAGEM <input type="checkbox"/> 111 - TRINCHA	Default Activity Group 1-1 - A LANÇO MACROPROCESS: ADUBAÇÃO 8-1 - ADUBAÇÃO LÍQUIDA MACROPROCESS: ADUBAÇÃO 27-1 - COMPOSTAGEM MACROPROCESS: ADUBAÇÃO 5-4 - ABERTURA CONSERV ÁREA MACROPROCESS: PREPARO DE SOLO 29-4 - CONSTR CONSERV CURVA NIVEL MACROPROCESS: PREPARO DE SOLO 40-4 - DESTOCAGEM MACROPROCESS: PREPARO DE SOLO 63-4 - NÃO DEFINIDO MACROPROCESS: PREPARO DE SOLO	3-1 - ABERT FECHAM SULCO C/ ADUBO COMPOSTO MACROPROCESS: ADUBAÇÃO 10-1 - APLICAÇÃO COMPOSTO MACROPROCESS: ADUBAÇÃO 2-2 - ABASTEC LUBRIFICAÇÃO MACROPROCESS: PULVERIZAÇÃO 16-4 - CANTEIRIZAÇÃO MACROPROCESS: PREPARO DE SOLO 31-4 - CONSTRUÇÃO TERRAÇO MACROPROCESS: PREPARO DE SOLO 44-4 - ENLEIRAMENTO MACROPROCESS: PREPARO DE SOLO 66-4 - NIVELADOR MACROPROCESS: PREPARO DE SOLO	6-1 - ADUBAÇÃO MACROPROCESS: ADUBAÇÃO 17-1 - CARREG TRANSP DESCARREG MACROPROCESS: ADUBAÇÃO 4-3 - ABERT FECHAM SULCO S/ ADUBO COMPOSTO MACROPROCESS: TRATOS CULTURAIS 17-4 - CARREG TRANSP DESCARREG MACROPROCESS: PREPARO DE SOLO 33-4 - CORRENTÃO MACROPROCESS: PREPARO DE SOLO 46-4 - ESCARIFICAÇÃO MACROPROCESS: PREPARO DE SOLO 69-4 - PLAINA MACROPROCESS: PREPARO DE SOLO

Image 03 – “Operational Links” tab in the Benchmark Registration

The step-by-step video showing how to register on the “Benchmark” screen is available on the home page of the PBI “Benchmark LTT” Report, under the “Video-Registrations” button.



Go to Main Menu > Records > Benchmark and Main Menu > Reports > PBI > Benchmark Menu > Benchmark LTT > Cover > Video-Registrations



Access available only to the “Project Manager” and “IT Support” User Groups.

1.1.1.2 PBI Report – LTT Benchmark

The PBI Report “LTT Benchmark (Light Tire Tractor)” aims to provide analysis of the behavior of this Unit Equipment Type at the client in comparison with the market.

The “LTT Benchmark” report is updated every 16th of each month, presenting a partial sample of data up to that date. On the fifth business day of each month, data from the previous month is processed. After completing this processing, the data is locked and will not be reprocessed to avoid changes in the ranking.

Due to its complexity, it is necessary that all registrations and notes be made in the most reliable way possible. At this level of analysis, the Process, Equipment, Fronts and Regions records incorporate the analysis, offering new views. The veracity of these records will guarantee the quality of the analysis before the market. Therefore, it is extremely important that the data entered in the “Benchmark” registration is carried out correctly.

An explanatory video is available on the cover of the “LTT Benchmark” report, in the “Video – Use” option, on how to use the report and its analyses.

The Grain Vertical “LTT Benchmark” Report has 6 filters, they are: **REGION**, **DEFAULT MACROPROCESS**, **DEFAULT ACTIVITY GROUP**, **DEFAULT EQUIPMENT MODEL**, **DEFAULT EQUIPMENT GROUP** and **BRANCH**.

The Perennials Vertical “LTT Benchmark” Report has 7 filters, they are: **REGION**, **DEFAULT MACROPROCESS**, **DEFAULT ACTIVITY GROUP**, **DEFAULT EQUIPMENT MODEL**, **DEFAULT EQUIPMENT GROUP**, **CULTURE** and **BRANCH**.



Image 04 – LTT Benchmark Report Cover

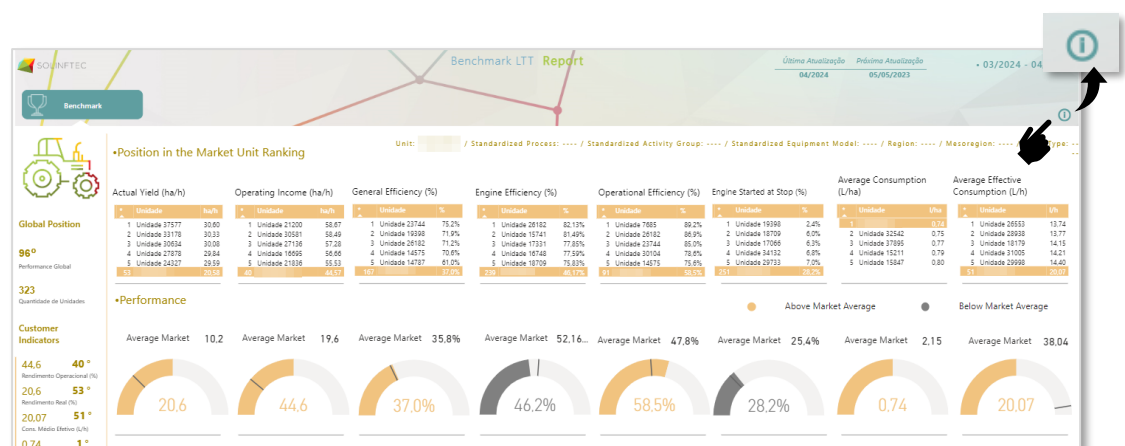
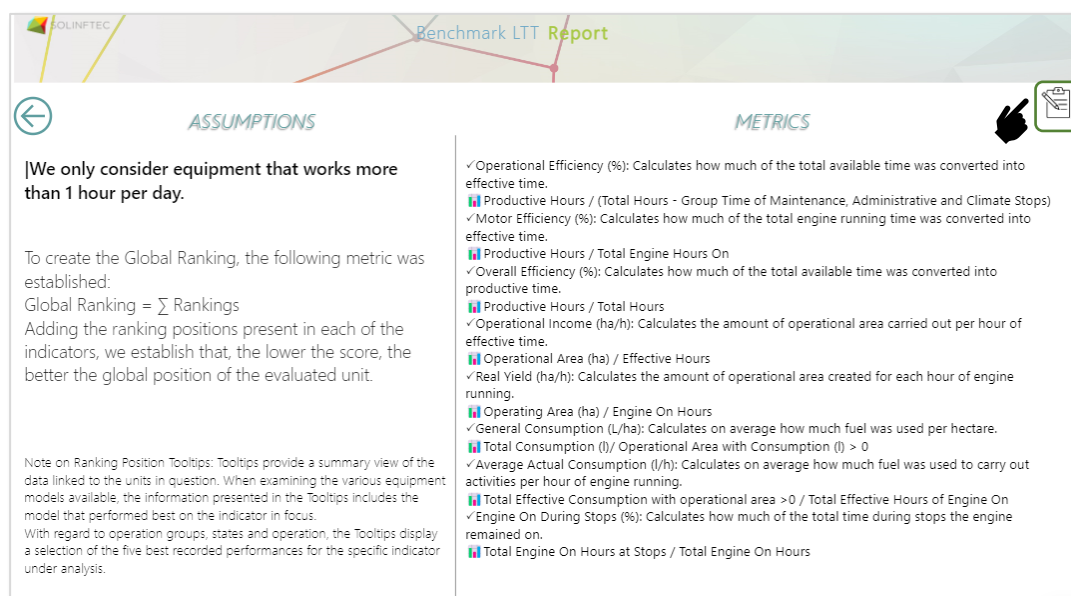


Image 05 – Main screen of the LTT Benchmark (Grains) Report and “i” button that takes the user to the Assumptions and Metrics screen of the report.



Benchmark LTT Report

ASSUMPTIONS

[We only consider equipment that works more than 1 hour per day.]

To create the Global Ranking, the following metric was established:

$$\text{Global Ranking} = \sum \text{Rankings}$$

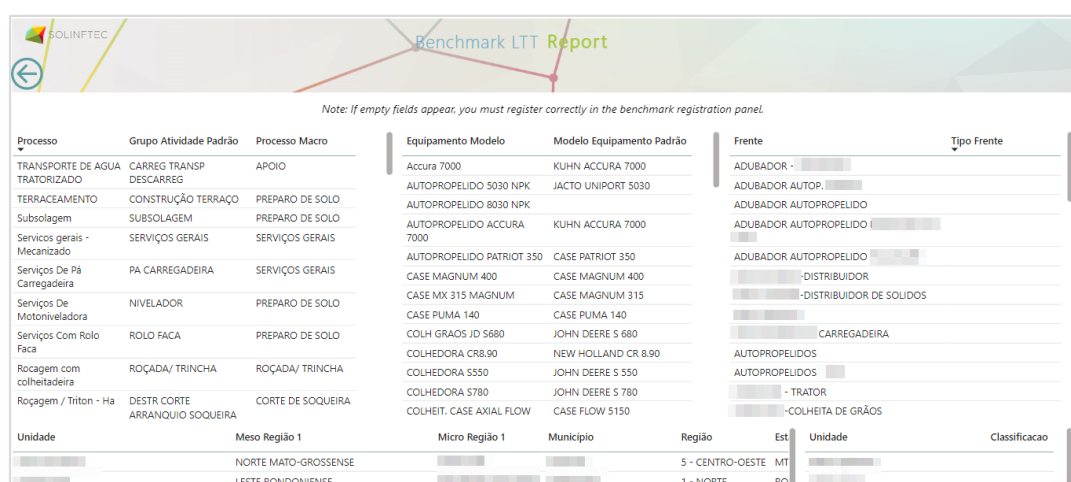
Adding the ranking positions present in each of the indicators, we establish that, the lower the score, the better the global position of the evaluated unit.

Note on Ranking Position Tooltips: Tooltips provide a summary view of the data linked to the units in question. When examining the various equipment models available, the information presented in the Tooltips includes the model that performed best on the indicator in focus. With regard to operation groups, states and operation, the Tooltips display a selection of the five best recorded performances for the specific indicator under analysis.

METRICS

- ✓ Operational Efficiency (%): Calculates how much of the total available time was converted into effective time.
- ✓ Productive Hours / (Total Hours - Group Time of Maintenance, Administrative and Climate Stops)
- ✓ Motor Efficiency (%): Calculates how much of the total engine running time was converted into effective time.
- ✓ Productive Hours / Total Engine Hours On
- ✓ Overall Efficiency (%): Calculates how much of the total available time was converted into productive time.
- ✓ Productive Hours / Total Hours
- ✓ Operational Income (ha/h): Calculates the amount of operational area carried out per hour of effective time.
- ✓ Operational Area (ha) / Effective Hours
- ✓ Real Yield (ha/h): Calculates the amount of operational area created for each hour of engine running.
- ✓ Operating Area (ha) / Engine On Hours
- ✓ General Consumption (L/ha): Calculates on average how much fuel was used per hectare.
- ✓ Total Consumption (l) / Operational Area with Consumption (l) > 0
- ✓ Average Actual Consumption (l/h): Calculates on average how much fuel was used to carry out activities per hour of engine running.
- ✓ Total Effective Consumption with operational area > 0 / Total Effective Hours of Engine On
- ✓ Engine On During Stops (%): Calculates how much of the total time during stops the engine remained on.
- ✓ Total Engine On Hours at Stops / Total Engine On Hours

Image 06 – Benchmark Screen with the Assumptions and Metrics of the Benchmark LTT Report and icon that directs you to view the data entered in the Benchmark Registry

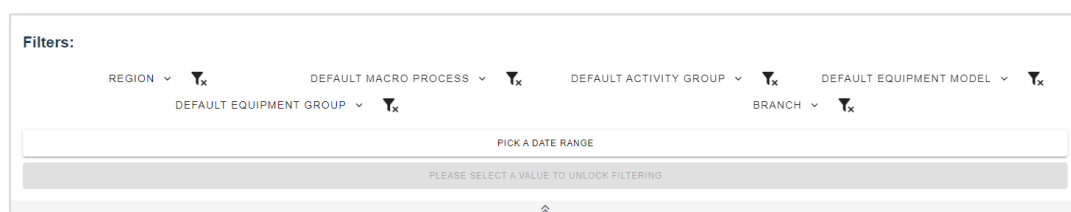


Note: If empty fields appear, you must register correctly in the benchmark registration panel.

Processo	Grupo Atividade Padrão	Processo Macro	Equipamento Modelo	Modelo Equipamento Padrão	Frete	Tipo Frete
TRANSPORTE DE AGUA TRATORIZADO	CARREG TRANSP	DESCARREG	Accura 7000	KUHN ACCURA 7000	ADUBADOR -	
TERRACEAMENTO	CONSTRUÇÃO TERRAÇO	PREPARO DE SOLO	AUTOPROPELIDO 5030 NPK	JACTO UNIPORT 5030	ADUBADOR AUTOP.	
Subsolagem	SUBSOLAGEM	PREPARO DE SOLO	AUTOPROPELIDO 8030 NPK		ADUBADOR AUTOPROPELIDO	
Serviços gerais - Mecanizado	SERVIÇOS GERAIS	SERVIÇOS GERAIS	AUTOPROPELIDO ACCURA 7000	KUHN ACCURA 7000	ADUBADOR AUTOPROPELIDO	
Serviços De Pá Carregadeira	PA CARREGADEIRA	SERVIÇOS GERAIS	AUTOPROPELIDO PATRIOT 350	CASE PATRIOT 350	ADUBADOR AUTOPROPELIDO	
Serviços De Motoniveladora	NIVELADOR	PREPARO DE SOLO	CASE MAGNUM 400	CASE MAGNUM 400	-DISTRIBUIDOR	
Serviços Com Rolo Faca	ROLO FACA	PREPARO DE SOLO	CASE MX 315 MAGNUM	CASE MAGNUM 315	-DISTRIBUIDOR DE SOLIDOS	
Rocagem com colheitadeira	ROÇADA/ TRINCHA	ROÇADA/ TRINCHA	CASE PUMA 140	CASE PUMA 140		
Rocagem / Triton - Ha	DESTR CORTE	CORTE DE SOQUEIRA	COLH GRAOS JD 5680	JOHN DEERE S 680	CARREGADEIRA	
	ARRANQUIO SOQUEIRA		COLHEDORA CR8.90	NEW HOLLAND CR 8.90	AUTOPROPELIDOS	
			COLHEDORA S550	JOHN DEERE S 550	AUTOPROPELIDOS	
			COLHEDORA S780	JOHN DEERE S 780	- TRATOR	
			COLHEIT. CASE AXIAL FLOW	CASE FLOW S150	-COLHEITA DE GRÃOS	

Unidade	Meso Região 1	Micro Região 1	Município	Região	Est	Unidade	Classificacao
	NORTE MATO-GROSSENSE			5 - CENTRO-OESTE	MT		
	LESTE RONDONIENSE			1 - NORTE	RO		

Image 07 – Screen with information entered in the Benchmark Register (Processes, Equipment, Activity Groups, etc.)



Filters:

REGION ☒ DEFAULT MACRO PROCESS ☒ DEFAULT ACTIVITY GROUP ☒ DEFAULT EQUIPMENT MODEL ☒

DEFAULT EQUIPMENT GROUP ☒ BRANCH ☒

PICK A DATE RANGE

PLEASE SELECT A VALUE TO UNLOCK FILTERING

Image 08 – Grains Vertical PBI “Benchmark LTT” Report Filters

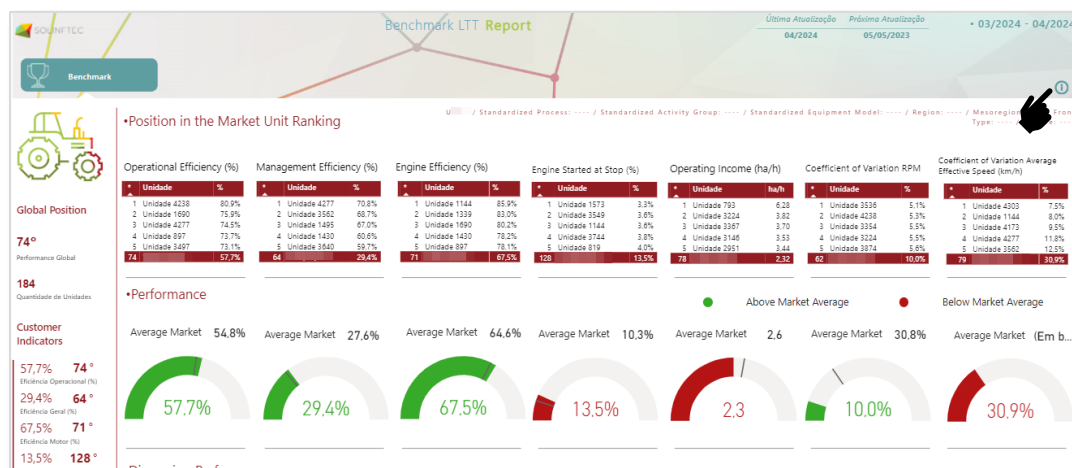
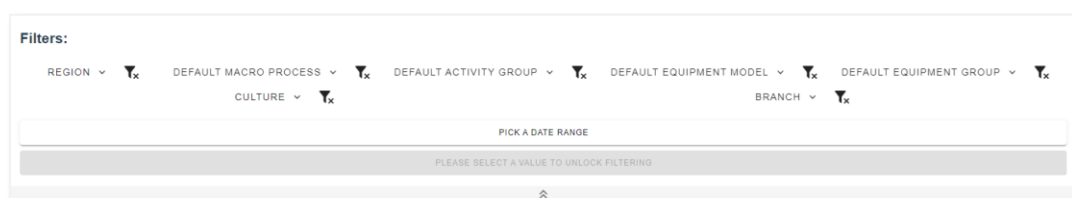


Image 09 – Main screen of the Perennials Vertical “LTT Benchmark” PBI Report



Filters:

REGION ▼ | DEFAULT MACRO PROCESS ▼ | DEFAULT ACTIVITY GROUP ▼ | DEFAULT EQUIPMENT MODEL ▼ | DEFAULT EQUIPMENT GROUP ▼

CULTURE ▼ | BRANCH ▼

PICK A DATE RANGE

PLEASE SELECT A VALUE TO UNLOCK FILTERING

Image 10 – Perennials Vertical PBI Report “LTT Benchmark” Filters

⚠ A necessary premise for Benchmark Reports to work is choosing only **one unit** at a time and one **period**, otherwise the report will be displayed without data.

💬 Go to Main Menu > Reports > PBI > Benchmark Menu > LTT

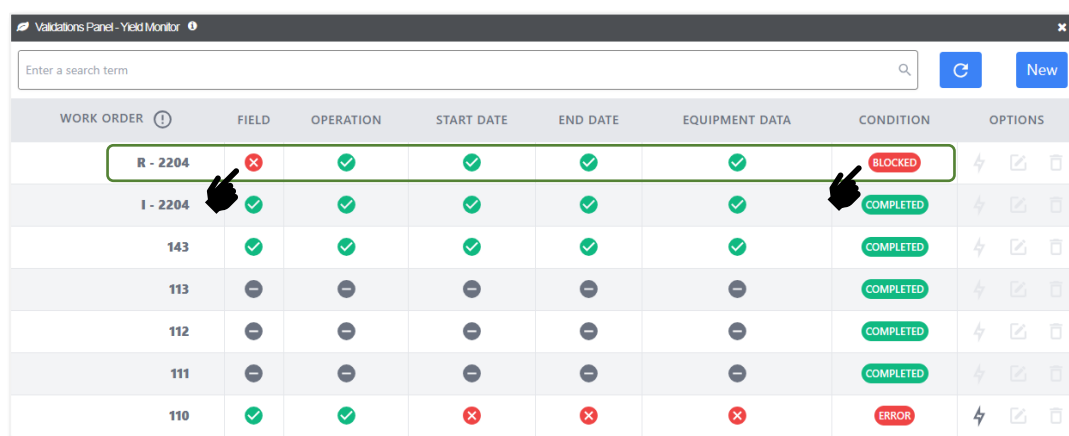
📘 Available for Grain and Perennial Vertical Environments.

1.2 Improvements

1.2.1 Yield Monitor – Validations Panel

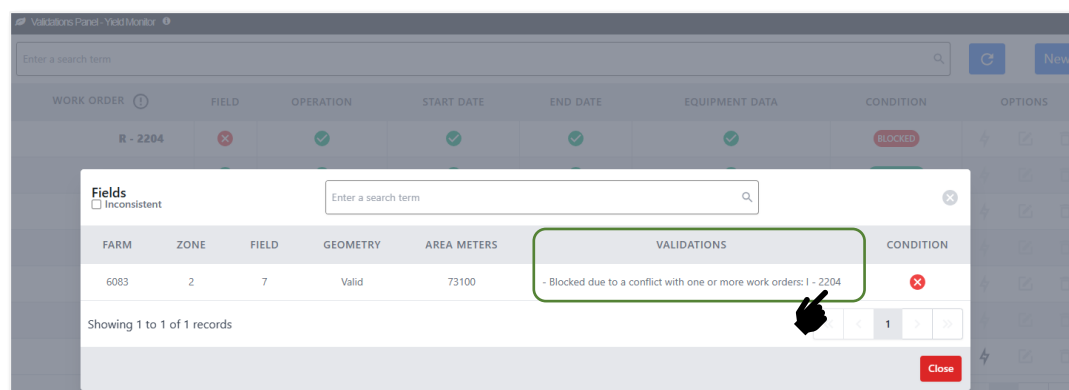
Improvement made to the Work Orders that are displayed on the “Validations Panel” screen. From this version on, Work Orders that enter SGPA3, via

Integration, will be displayed with a **BLOCKED** condition, with data previously entered in another Work Order. It will be displayed with the “x” icon in the “Field” column and when clicked, it will display in the details, the Work Order code that caused the conflict.



WORK ORDER	FIELD	OPERATION	START DATE	END DATE	EQUIPMENT DATA	CONDITION	OPTIONS
R - 2204	x	✓	✓	✓	✓	BLOCKED	⚡ ✎ 🗑
I - 2204	✓	✓	✓	✓	✓	COMPLETED	⚡ ✎ 🗑
143	✓	✓	✓	✓	✓	COMPLETED	⚡ ✎ 🗑
113	—	—	—	—	—	COMPLETED	⚡ ✎ 🗑
112	—	—	—	—	—	COMPLETED	⚡ ✎ 🗑
111	—	—	—	—	—	COMPLETED	⚡ ✎ 🗑
110	✓	✓	x	x	x	ERROR	⚡ ✎ 🗑

Image 11 – Work Order with condition Blocked on the “Validations Panel” screen



FARM	ZONE	FIELD	GEOMETRY	AREA METERS	VALIDATIONS	CONDITION
6083	2	7	Valid	73100	- Blocked due to a conflict with one or more work orders: I - 2204	x

Image 12 – Displaying the cause of WO blocking in the “Fields” details



Go to Main Menu > Validations Panel > Condition > Blocked



Available for Cane Vertical environments that have the “Yield/Productivity Monitor” solution active.

1.2.2 PBI Reports – FUT Adhesion

Improvement made to the PBI Report “FUT Adhesion”, from Cane Vertical, to add units of measurement along with fields description in the “Transshipment Cycle” tab. The unit of measurement added in the “Empty Travel”, “Loading”, “Loaded Travel” and “Tipping” information was “Minutes”. In “Demand”, the unit of measure Transshipment Quantity was inserted.

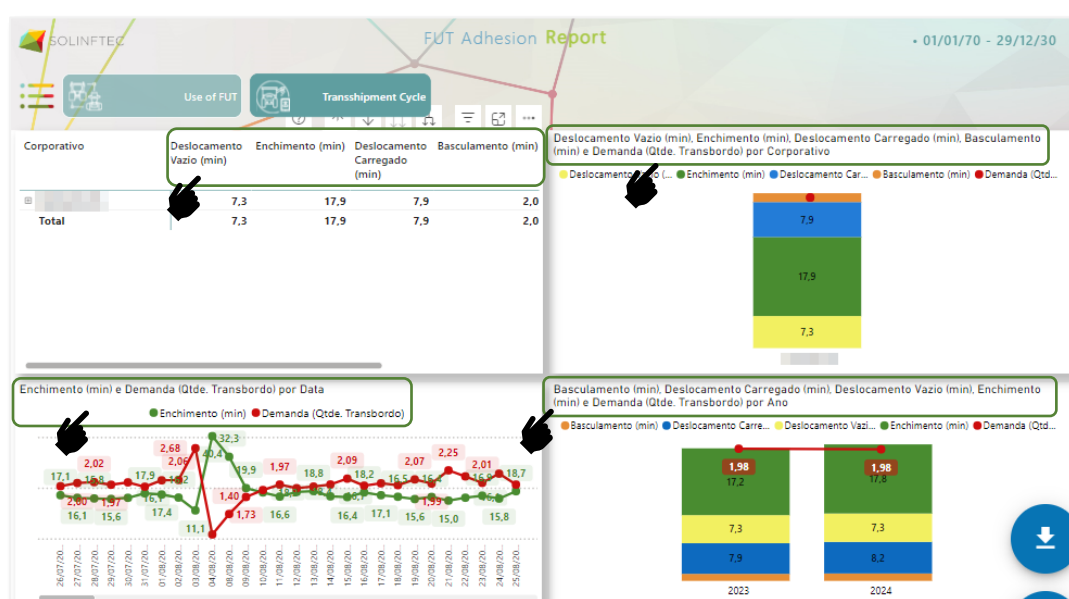


Image 13 – Units of measurement in the “FUT Adhesion” report

Go to Main Menu > Reports > PBI > Hauling Tractor Flow > Flow Adhesion > Transshipment Cycle Tab

Available for Vertical Sugarcane Environments.

1.2.3 Reports – Report Generator

Improvement made to the “Report Generator”. As of next version, **3.2024.225** which will be available on **05/07/2024**, it will be necessary to use the “reCAPTCHA” validation tool to be able to generate reports.

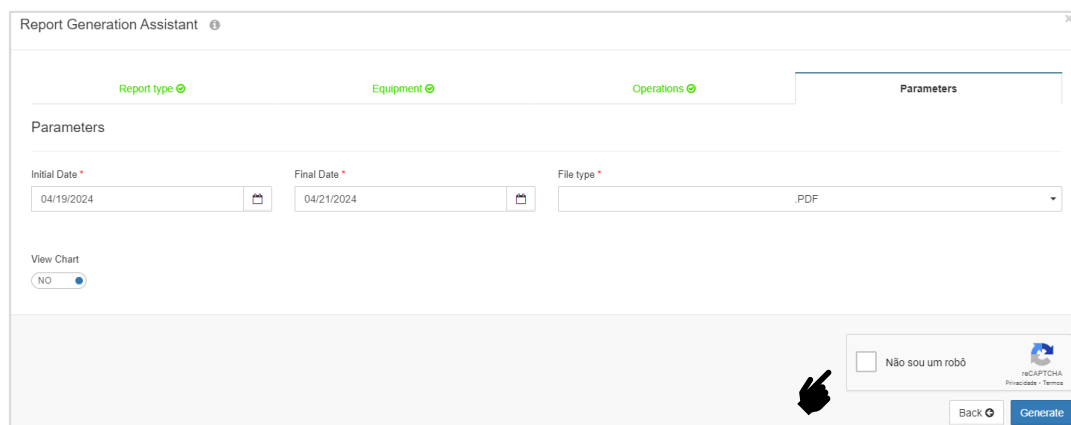


Image 14 – When you click on Generate, the “reCAPTCHA” validation tool will be displayed

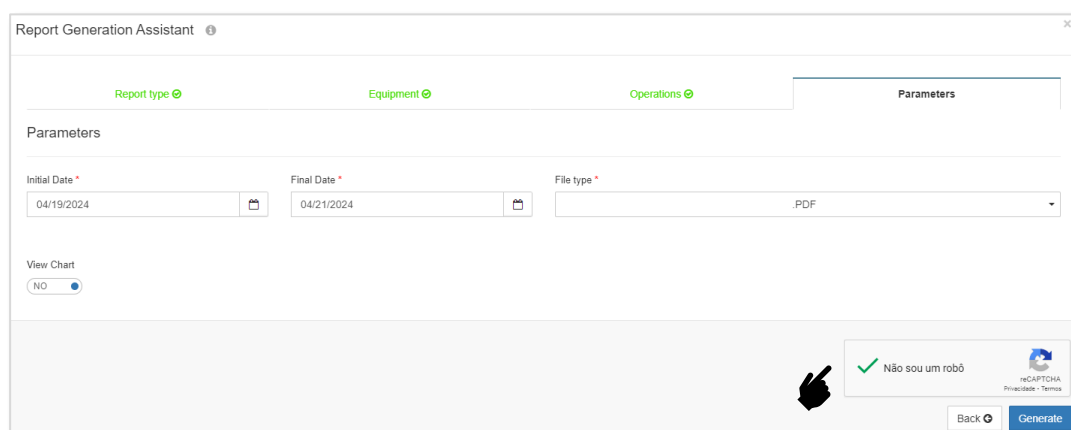




Image 15 – “reCAPTCHA” validation tool completed and authorized to generate the report

-  Go to Main menu > Reports > Report Generator
-  Available for Sugarcane Vertical Environments.

1.3 Bugs

1.3.1 Monitoring – Trail

Adjustment applied to display data correctly in the Monitoring Trail.

-  Go to Top menu > Monitoring > Equipment > Trail
-  Applied on 04/22/2024.

1.3.2 CDG Pannel – Trips in Progress

Adjustment made in the “Trips in Progress” modal of the “CDG Panel” to correctly display the data when switching between pages.



Go to Top menu > CDG Panel > Trips in Progress

1.3.3 CDG Panel – Entries’ History

Adjustment made in the “CDG Panel” to not display duplicate records in the “Entries’ History” modal.



Go to Top menu > CDG Panel > Entries’ History

In case of doubt or further clarification, please contact us via email suporte@solinftec.com.br or call +55 18 3622 2270