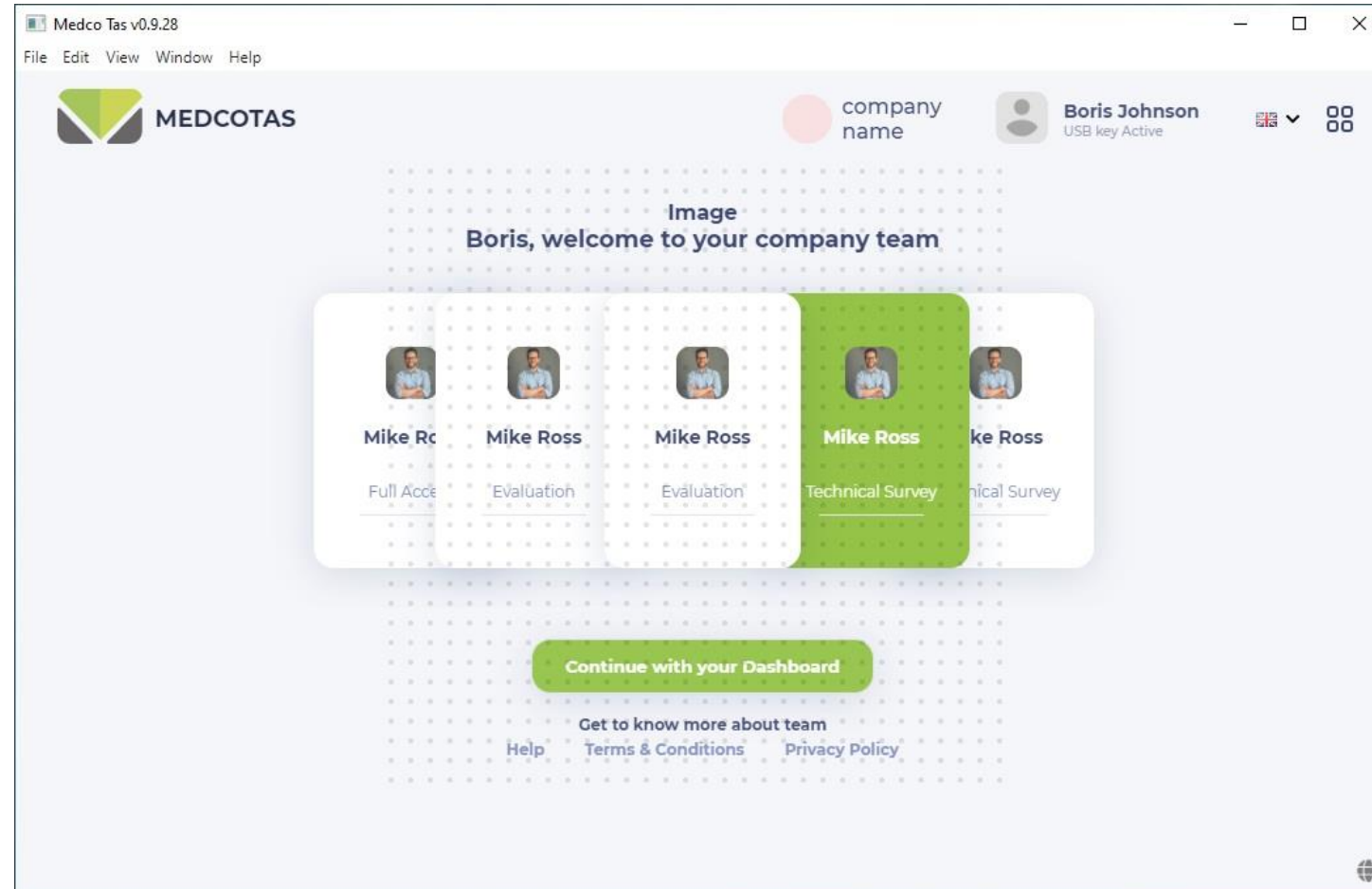
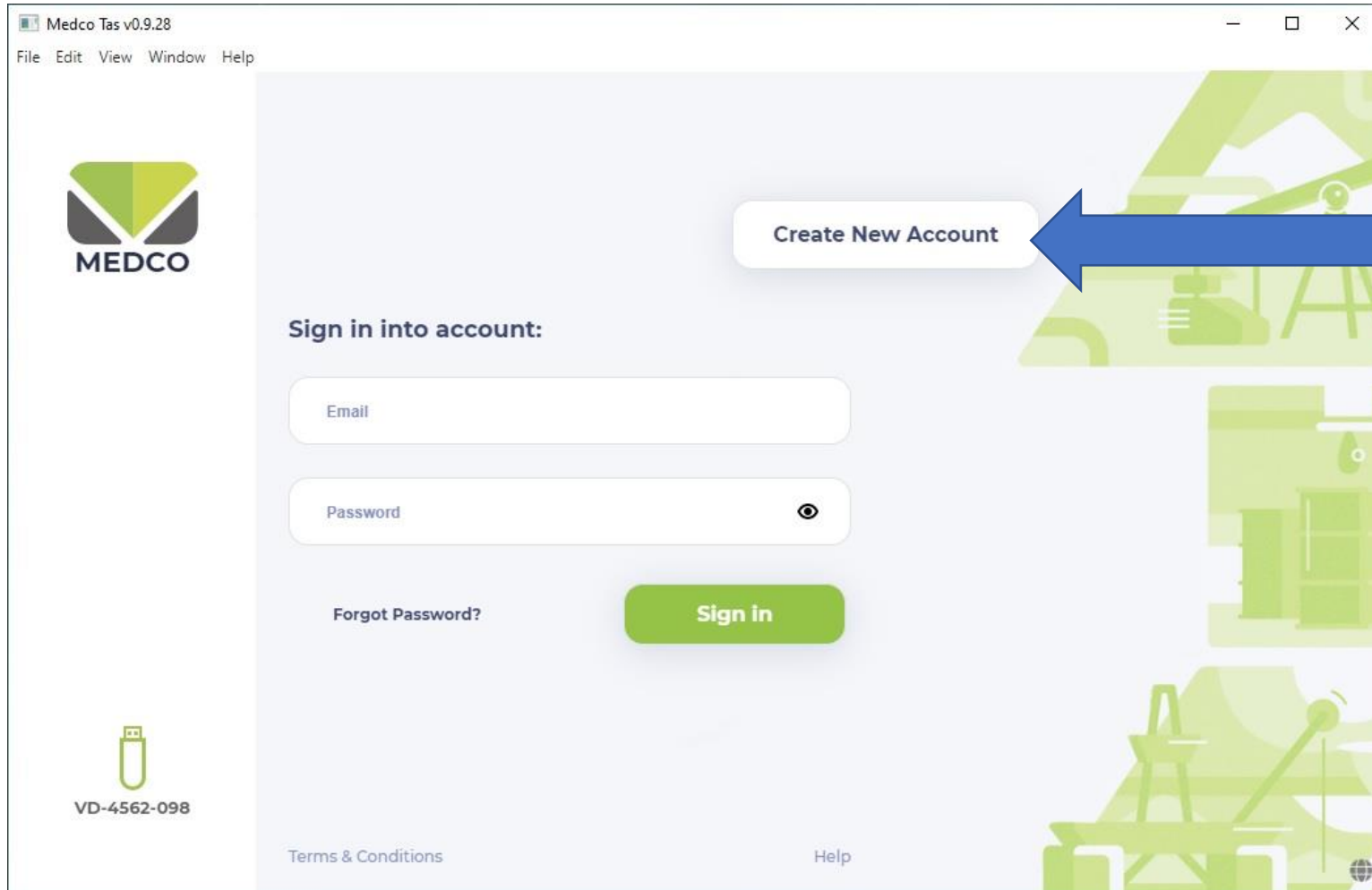


Welcome to MEDCOTAS






Starting MedcoTAS for the first time:

The user needs to CREATE NEW ACCOUNT

Medco Tas v0.9.28

File Edit View Window Help



MEDCO


Sign in into account:

Email

Password

[Forgot Password?](#)


[Sign in](#)



VD-4562-098

[← Back](#)


Create New Account



Boris

Johnson

support@medcotas.com

..... 

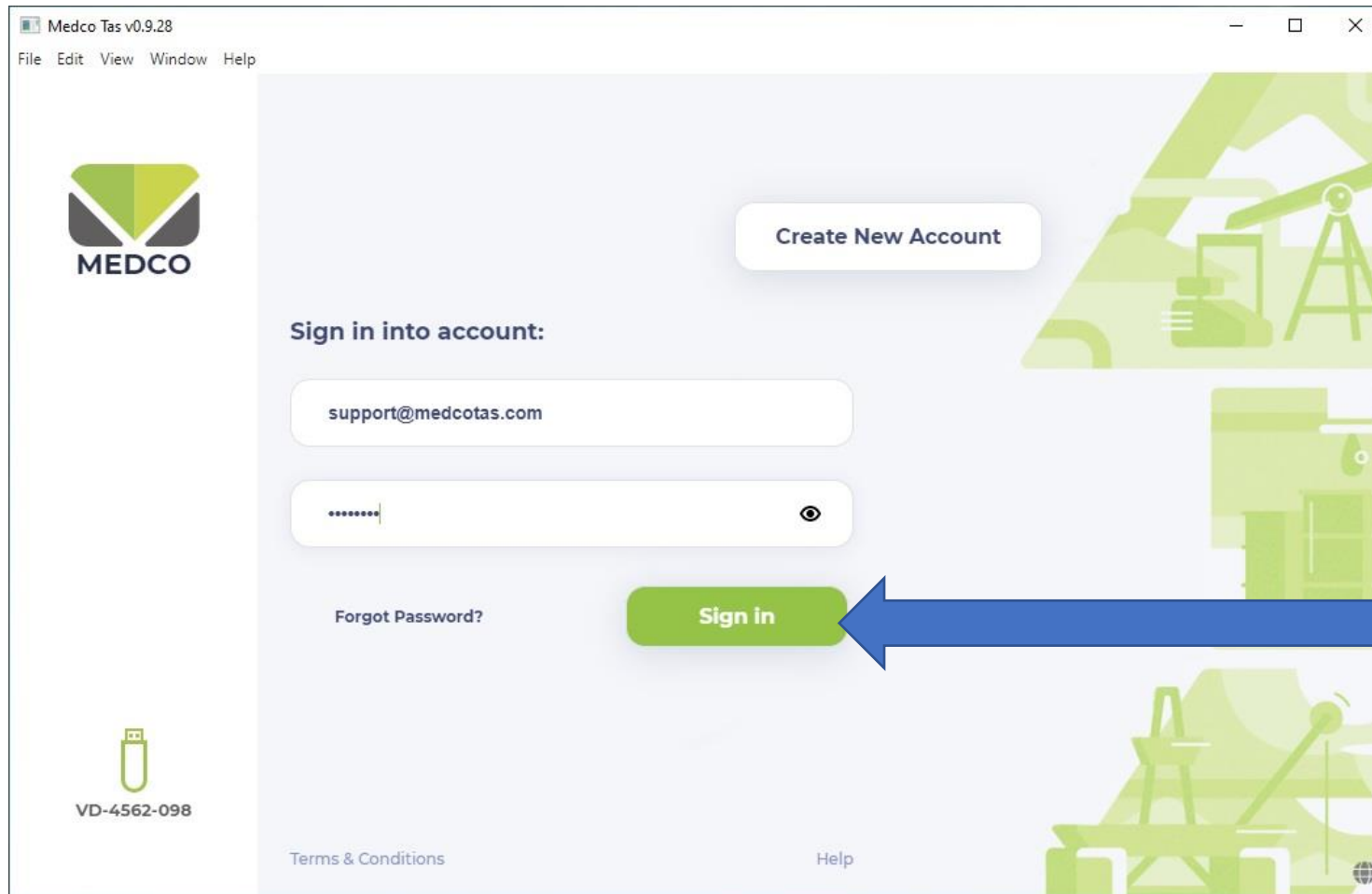
[Create Account](#)

[Terms & Conditions](#)

[Help](#)

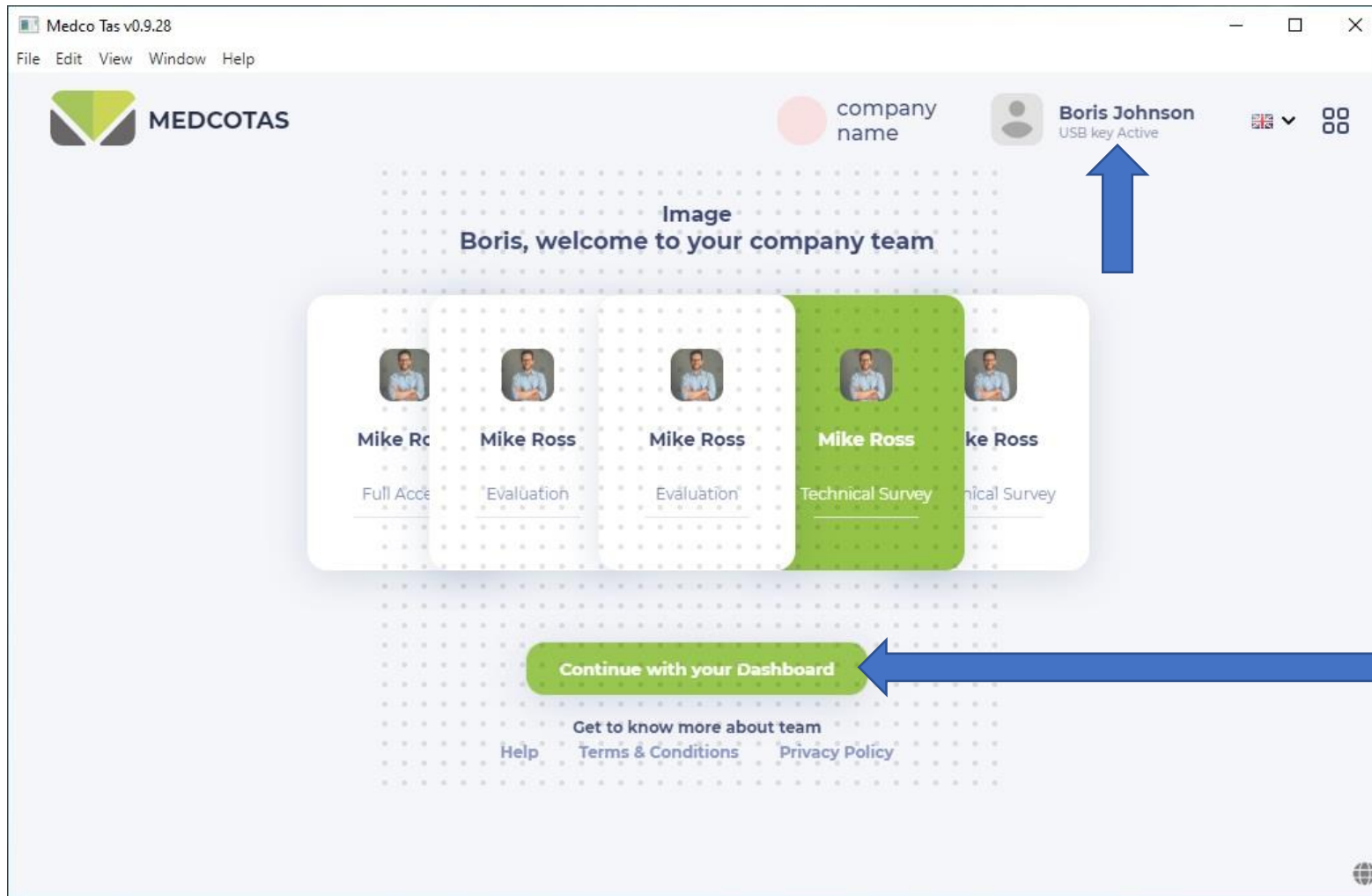
Create New Account:

Fill in the fields then click Create Account



Sign In to MedcoTAS:

Enter the email and password associated with the account created in "Create New Account" step, then click "Sign In"



The Welcome Screen:

By clicking the User Name, more information regarding the user and the company can be entered, such as;

- User's photo
- Company name
- Company's website
- Company's Logo

After completing the user profile information, click "Continue to your Dashboard"

MedcoTAS Dashboard

Language selection

DART Application

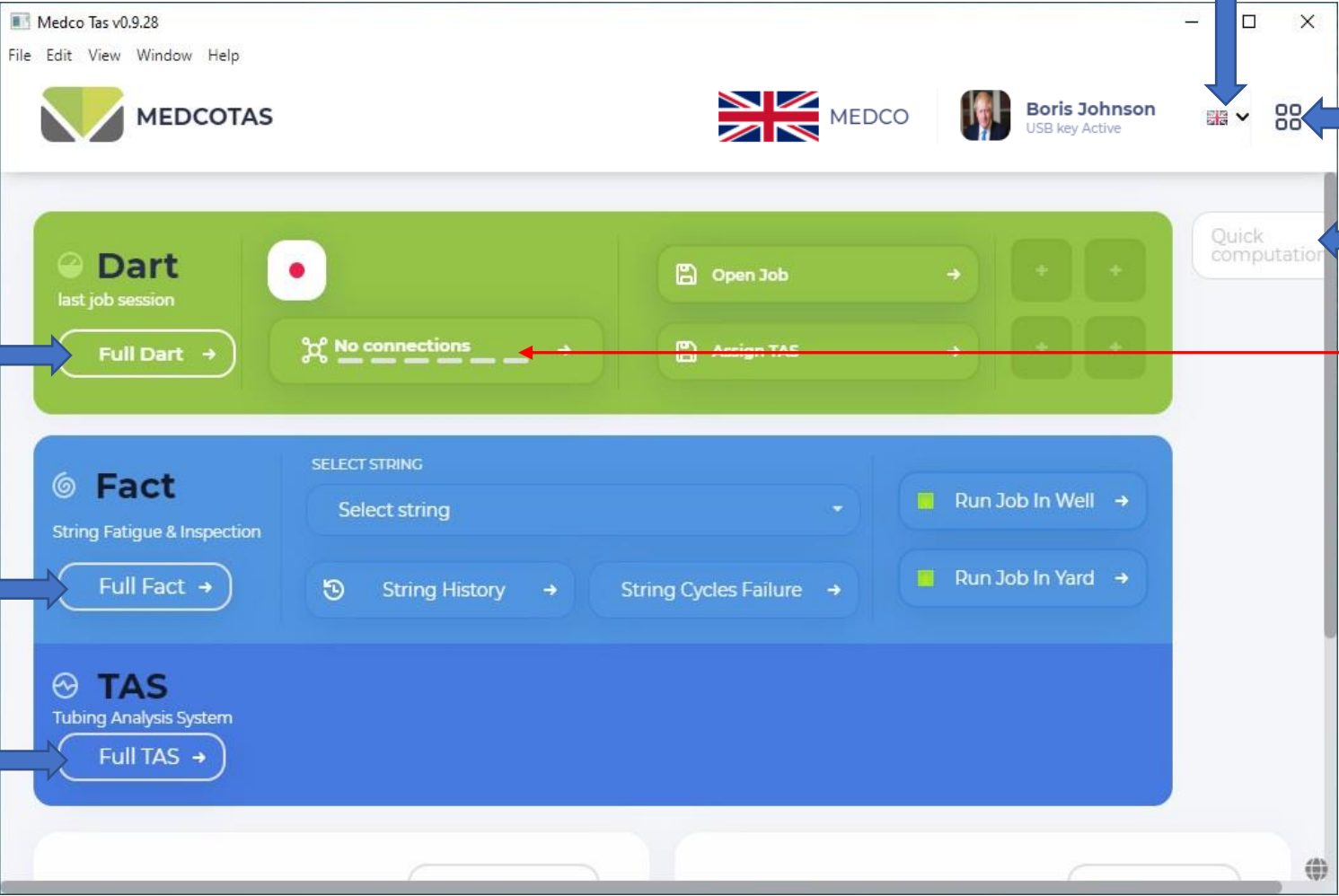
FACT Application


TAS Application


Access to Database

Quick Computations

Click here to launch hardware protocol configuration



 MEDCOTAS


 **Dart**
test job session

Full Dart →

No connections →

Open Job


Assign TAS

 **Fact**
String Fatigue & Inspection

Select string

String History →

Full Fact →

 **TAS**
Tubing Analysis System

Full TAS →

Equipment All ▾

Test string

Test reel

Hardware Settings

HMI (1) On ● Off

IP Address81.150.122.27

Parameters10

URLauto/001/

HMI (2) On ● Off

IP Address217.37.100.115

Parameters10

URLauto/001/

RS 232 (1) On ● Off

☐ Mini Ream

Port numberCOM2

Number of Parameters10

Baud Rate19200

ParityNone

Data Bits8

Stop Bits1

HandShakeNone

DelimiterSpace

TerminatorCarriage Return & Line Feed

RS 232 (2) On ● Off

☐ Mini Ream

Port numberCOM2

Number of Parameters10

Baud Rate19200

ParityNone

Data Bits8

Stop Bits1

HandShakeNone

DelimiterSpace

TerminatorCarriage Return & Line Feed

TCP Client On ● Off

IP Address217.37.100.115

Number of Parameters10

Port1234

DelimiterSpace

Start CharacterD

TerminatorE

OPC Server On ● Off

Launch OPC Configurator

Reset to defaults

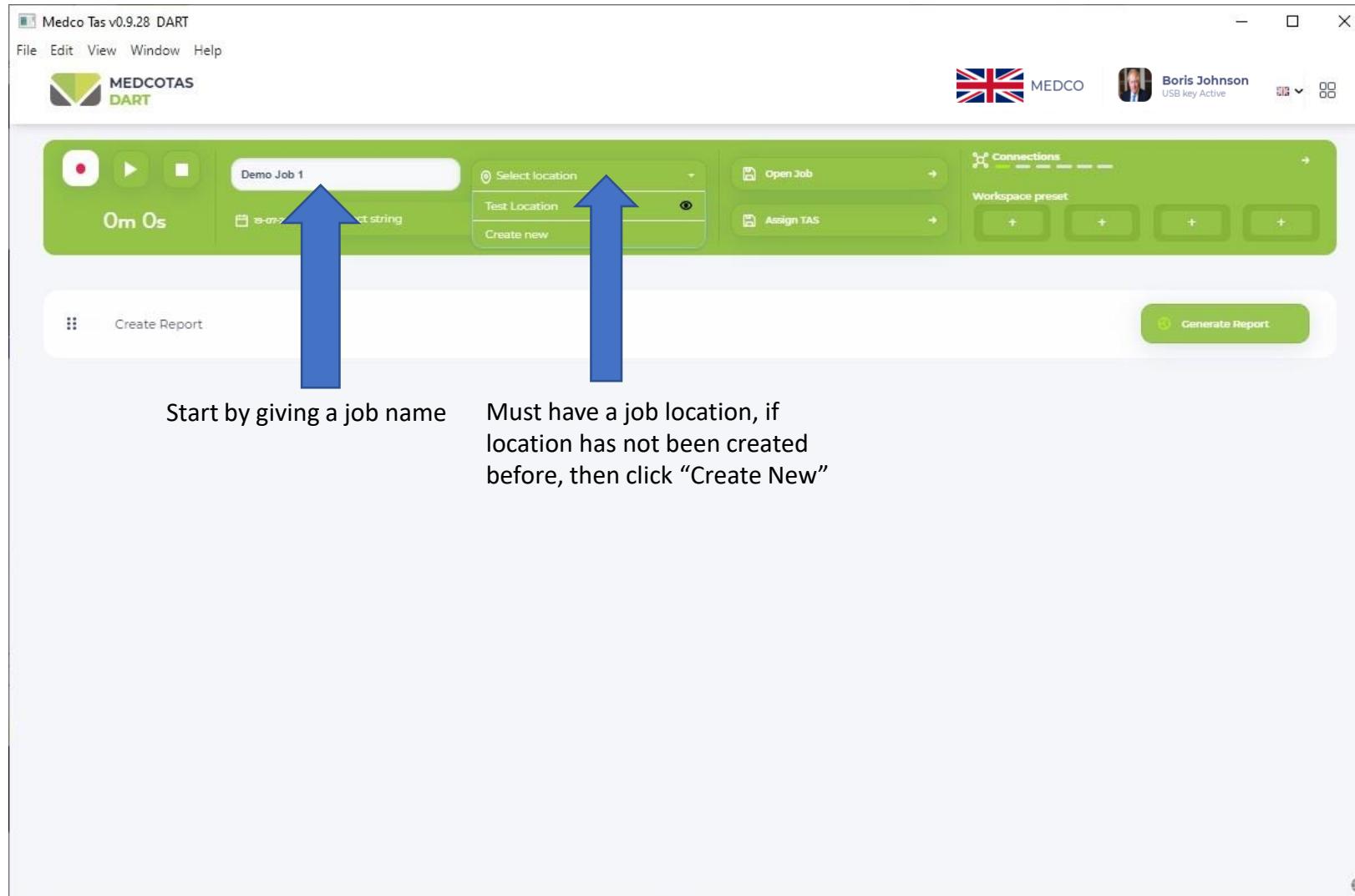
Cancel

Save

Configuring Hardware Protocol

Turn ON the relevant hardware and fill in the fields associated with the selected protocol

Launch the DART Application



Create New Location

Medco Tas v0.9.31 DART

File Edit View Window Help

MEDCOTAS DART

Job Name

0m 0s

25-07-2022

CT Par...

Fluid ...

Weight Indic...
0.0_lbs

Wellhead Pr...
0.0_psd

Circulation ...
0.0_psd

Tubing Speed
0.0_ft/min

Depth
0.0_ft

Fluid Flow
0.0_gpm

Fluid Total
0.0_pots

Create Location

Name

GPS Coordinates

Field

Name

Longitude

Latitude

Import from file

Depth ft

Inclination - deg

Azimuth - deg

+

Cancel

Save Location

Fill the relevant information about the location

Survey data can be entered manually or copy and paste (Ctrl+V) from Excel

Clipboard				Font				New Group				Alignme			

Medco Tas v0.9.28 DART

File Edit View Window Help

MEDCOTAS DART

Demo Job 1

0m 0s 19-07-2022

Create Report

Create Location

Name: Demo Location

GPS Coordinates: 51.26.18 0.12.45

Field: 55.6 90.12 118.69 18660 90.3 119.2

Survey Data Completion Data

Import from file

Depth - ft	Inclination - deg	Azimuth - deg
0	0.02	249.24
25	0.02	249.24
50	0.03	249.24
75	0.05	249.24
100	0.06	249.24
125	0.08	249.24
150	0.09	249.24
175	0.11	249.24
200	0.12	249.24
225	0.14	249.24
250	0.12	336.06

Use "Ctrl+V" to paste the data

Completion Data (1/2)

Medco Tas v0.9.28 DART

File Edit View Window Help

MEDCOTAS DART

Demo Job 1

0m 0s

19-07-2022

Create Report

Create Location

Name: Demo Location

GPS Coordinates: 51.26.18 0.12.45

Field: Wimbledon0 0.02 249.24 25 0.02 249.

Survey Data Completion Data

Import from file

Name	Outer diameter	in	Inner diameter	in	Top	ft	Bottom	ft	Friction Factor Running-in	Friction Factor Running-out	Relative Roughness
+											

Cancel Save Location

Click here to add new row of completion data

Completion Data ... continued(2/2)

Medco Tas v0.9.28 DART

File Edit View Window Help

MEDCOTAS DART

Demo Job 1

Om Os 19-07-2022

Create Report

Create Location

Name: Demo Location

GPS Coordinates: 51.26.18 0.12.45

Field: Wimbledon0 0.02 249.24 25 0.02 249.

Survey Data Completion Data

Import from file

	Name	Outer diameter in	Inner diameter in	Top ft	Bottom ft	Friction Factor Running-in	Friction Fact Running-o
1.	3.5 in x 9.2 lbs/ft	3.5	2.992	0	15200	0.23	0.23
2.	7 in x 29 lbs/ft	7	6.184	15000	18660	0.23	0.23
+							

Cancel Save Location

Click the drop-down to see more options of casings/tubings

Friction Factors and Reltive Roughness figure are automatically filled in, they can be changed manually

Ensure the "Bottom" depth of the last completion section matches the last depth of the survey data

Save Location

Medco Tas v0.9.28 DART

File Edit View Window Help

MEDCOTAS DART

Demo Job 1

0m 0s

19-07-2022

Create Report

Create Location

Name: Demo Location

GPS Coordinates: 51.26.18 0.12.45

Field: Wimbledon0 0.02 249.24 25 0.02 249.

Survey Data Completion Data

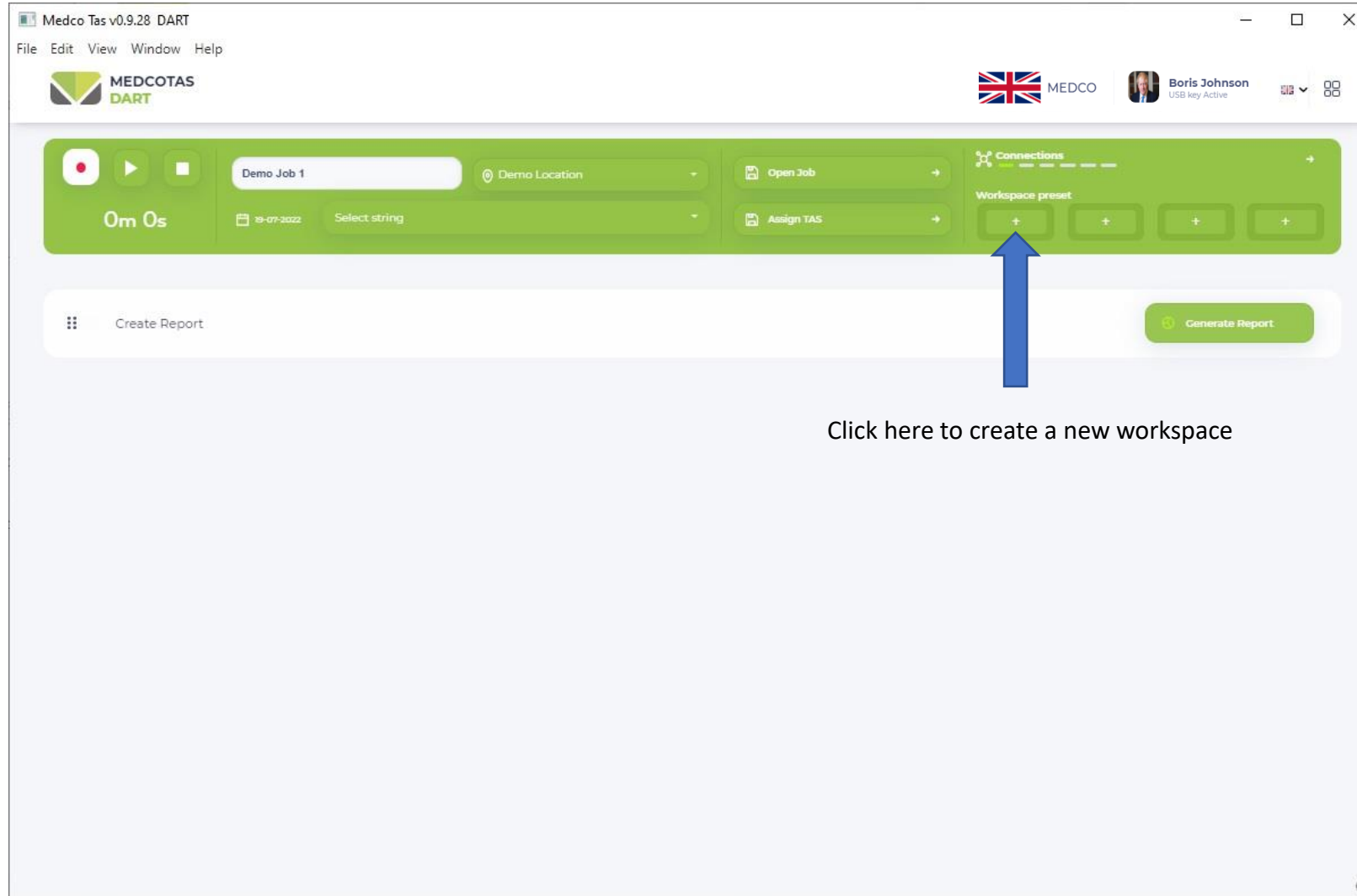
Import from file

uter diameter in	Inner diameter in	Top ft	Bottom ft	Friction Factor Running-in	Friction Factor Running-out	Relative Roughness	
	2.992	0	15200	0.23	0.23	0.001	🗑
	6.184	15000	18860	0.23	0.23	0.001	🗑

Cancel Save Location

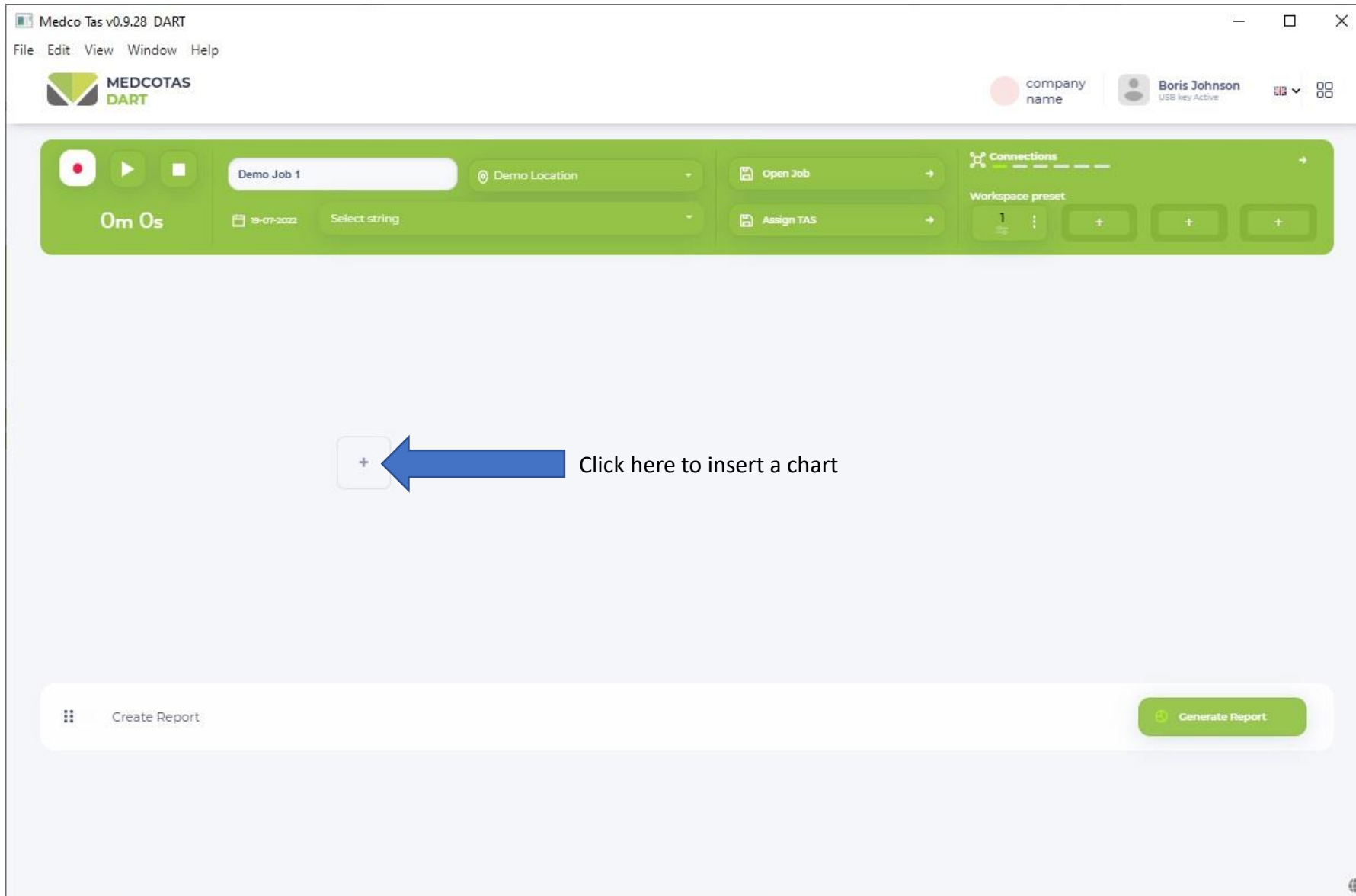
Click "Save Location"

Configure Data Displays in DART



Click here to create a new workspace

Adding Charts to Workspace



Create Charts in DART

The screenshot displays the Medco Tas v0.9.28 DART application window. The title bar reads 'Medco Tas v0.9.28 DART'. The menu bar includes 'File', 'Edit', 'View', 'Window', and 'Help'. The top toolbar features the Medcotas DART logo, a UK flag, the text 'MEDCO', a user profile for 'Boris Johnson' with 'USB key Active', and window management icons. Below the toolbar is a green control bar with buttons for 'Demo Job 1', 'Demo Location', 'Open Job', 'Assign TAS', and 'Connections'. A 'Workspace preset' section shows a list of presets with '+' and '-' buttons. The main workspace area is light blue. A white panel is overlaid on the workspace, containing a 'Create new custom chart' button with a checkmark and a '+' icon, a 'Search from list' input field, and a section titled 'Default Charts' with a 'Charts' sub-label. Two blue arrows point from text annotations to the 'Create new custom chart' button and the 'Default Charts' section. At the bottom of the window is a white bar with a 'Create Report' button and a green 'Generate Report' button.

Medco Tas v0.9.28 DART

File Edit View Window Help

MEDCOTAS DART

UK MEDCO Boris Johnson USB key Active

0m 0s Demo Job 1 Demo Location Open Job Assign TAS Connections Workspace preset

✓ Create new custom chart +

Search from list

Default Charts Charts

Create Report Generate Report

Click here to create new chart

Otherwise, if charts have been created previously, they will appear here

Assigning Parameters in Charts

Medco Tas v0.9.28 DART

File Edit View Window Help

MEDCOTAS DART

Demo Job 1 Demo Location

Om Os 15-07-2022 Select string

Create new chart

Name: CT Parameters

Type: Time series

Data Indicated in charts

Drag & drop the parameter

Available parameters

- ✓ HMI [I]-Weight Indicator
- ✓ HMI [I]-Light Weight
- ✓ HMI [I]-Wellhead Pressure
- ✓ HMI [I]-Circulation Pressure
- ✓ HMI [I]-Fluid Flow
- ✓ HMI [I]-Nitrogen Flow
- ✓ HMI [I]-Reel speed
- ✓ HMI [I]-Fluid Total
- ✓ HMI [I]-NitrogenTotal
- ✓ HMI [I]-Reel Depth

Drag & Drop from list

Save

If using MEDCO's REAM HMI, the parameters in the data stream will be automatically displayed. Otherwise, the parameters will have no specific names, rather they will be generic.

Assigning Parameters to Charts ... Continued

Medco Tas v0.9.28 DART

File Edit View Window Help

MEDCOTAS DART

Demo Job 1 Demo Loc

Om Os

19-07-2022 Select string

Create Report

Create new chart

Name CT Parameters

Type Time series

Data indicated in charts

- ☒ HMI (I)-Weight Indicator

Click here to Edit Parameter Properties

Available parameters

- ☒ HMI (I)-Light Weight
- ☒ HMI (I)-Wellhead Pressure
- ☒ HMI (I)-Circulation Pressure
- ☒ HMI (I)-Fluid Flow
- ☒ HMI (I)-Nitrogen Flow
- ☒ HMI (I)-Reel speed
- ☒ HMI (I)-Fluid Total
- ☒ HMI (I)-NitrogenTotal
- ☒ HMI (I)-Reel Depth

Save

Edit Parameter Properties

Medco Tas v0.9.28 DART

File Edit View Window Help

MEDCOTAS DART

Create new chart

Name: CT Parameters

Type: Time series

Data indicated in charts

Available parameters

- ✓ HMI (I)-Light Weight
- ✓ HMI (I)-Wellhead Pressure
- ✓ HMI (I)-Circulation Pressure
- ✓ HMI (I)-Fluid Flow
- ✓ HMI (I)-Nitrogen Flow
- ✓ HMI (I)-Reel speed
- ✓ HMI (I)-Fluid Total
- ✓ HMI (I)-NitrogenTotal
- ✓ HMI (I)-Reel Depth

0m 0s

Weight Indicator

40000

100000

1

Reset

Reset All

Save

Save

Create Report

0.0

Color

Scale Minimum

Scale Maximum

Alert Minimum

Alert Maximum

Gain

Select unit

Offset

LBF

0

Completing Chart Editing

The screenshot shows the Medco Tas v0.9.28 DART application window. The main interface on the left displays a 'Demo Job 1' with a '0m 0s' timer and a 'Select string' button. The 'Create new chart' dialog is open on the right, featuring the following elements:

- Name:** CT Parameters
- Type:** Time series
- Data indicated in charts:** A list of parameters with checkboxes and units:
 - Weight Indicator (lbs)
 - Wellhead Pressure (psi)
 - Circulation Pressure (psi)
 - Tubing Speed (ft/min)
 - Depth (ft)
- Available parameters:** A list of parameters with checkboxes:
 - HMI (I)-Light Weight
 - HMI (I)-Fluid Flow
 - HMI (I)-Nitrogen Flow
 - HMI (I)-Fluid Total
 - HMI (I)-NitrogenTotal

At the bottom right, a blue arrow points to a green 'Save' button with the text 'When finished click SAVE'.

Add Another Chart

Medco Tas v0.9.28 DART

File Edit View Window Help

MEDCOTAS DART

UK MEDCO Boris Johnson USB key Active

0m 0s Demo Job 1 Demo Location Open Job Assign TAS Connections Workspace preset

CT Par...

Weight Indic... 0.0,psi

Wellhead Pr... 0.0,psi

Circulation... 0.0,psi

Tubing Speed 0.0,psi/min

Depth 0.0,psi

No data to display

Reset Zoom Full Screen

+

Click here to add another chart

Another Time-Series Chart

Medco Tas v0.9.28 DART

File Edit View Window Help

MEDCOTAS DART

0m 0s

Demo Job 1

18-07-2022 Select string

CT Par...

Weight Indic...
0.0_lbs

Wellhead Pr...
0.0_psi

Circulation ...
0.0_psi

Tubing Speed
0.0_ft/min

Depth
0.0_ft

+

Create new chart

Name Fluid Flow

Type Time series

Data indicated in charts

- ✓ Fluid Flow bpm
- ✓ Fluid Total bbls

Available parameters

- ✓ Weight Indicator
- ✓ HMI (I)-Light Weight
- ✓ Wellhead Pressure
- ✓ Circulation Pressure
- ✓ HMI (I)-Nitrogen Flow
- ✓ Tubing Speed
- ✓ HMI (I)-NitrogenTotal
- ✓ Depth

Save

Add Depth vs Weight Chart

Medco Tas v0.9.28 DART

File Edit View Window Help

Medcotas DART

0m 0s

15-07-2022

Select string

Demo Job 1

Demo Loc

Fluid Flow

0.0,000

Fluid Total

0.0,000

+

Create new chart

Name

Type

Time series

Data Ind

Time series

Correlation Chart

Weight VS Depth

Gaug

Drag & Drop from list

Available parameters

Weight Indicator

HMI (I)-Light Weight

Wellhead Pressure

Circulation Pressure

Fluid Flow

HMI (I)-Nitrogen Flow

Tubing Speed

Fluid Total

HMI (I)-NitrogenTotal

Depth

Save

Select Weight VS Depth

Weight vs Depth Chart

Medco Tas v0.9.28 DART

File Edit View Window Help

MEDCOTAS DART

Demo Job 1 Demo Location

0m 0s 19-07-2022 Select string

Fluid ...

Fluid Flow 0.0 gpm

Fluid Total 0.0 gpm

Create new chart

Name Weight v Depth

Type Weight VS Depth

Depth parameter

✓ Depth ft

Weight parameter

✓ Weight Indicator lbs

Speed parameter

✓ Tubing Speed ft/min

Available parameters

- ✓ HMI [I]-Light Weight
- ✓ Wellhead Pressure
- ✓ Circulation Pressure
- ✓ Fluid Flow
- ✓ HMI [I]-Nitrogen Flow
- ✓ Fluid Total
- ✓ HMI [I]-NitrogenTotal

Save

Correlation Chart

Medco Tas v0.9.28 DART

File Edit View Window Help

Demo Job 1

Demo Loc...

0m 0s

18-07-2022

Select string

Fluid ...

Fluid Flow
0.0_{l/min}

Fluid Total
0.0_{l/min}

Weight...

Weight Indis...
0.0_{l/min}

Depth
0.0_m

Assign Tas

Reset Zoom

No data to display

Create new chart

Name

Type

Data Indic...

Time series

Correlation Chart

Weight vs Depth

Gauge

Available parameters

Weight Indicator

HMI (I)-Light Weight

Wellhead Pressure

Circulation Pressure

Fluid Flow

HMI (I)-Nitrogen Flow

Tubing Speed

Fluid Total

HMI (I)-NitrogenTotal

Depth

Drag & Drop from list

Save

Correlation charts are used to correlate between two parameters.

For example, circulation pressure vs flow rate

Correlation Chart ... continued

Medco Tas v0.9.28 DART

File Edit View Window Help

MEDCOTAS DART

0m 0s

Demo Job 1

18-07-2022

Select string

Fluid ...

Fluid Flow
0.0,mm

Fluid Total
0.0,mm

Weight...

Weight indic...
0.0,mm

Depth
0.0,mm

Assign Tas

Reset Zoom

No data to display

Create new chart

Name: Fluid Circulation

Type: Correlation Chart

X-axis parameter:

Fluid Flow bpm

Y-axis parameters:

Circulation Pressure psi

Available parameters:

- ✓ Weight Indicator
- ✓ HMI (I)-Light Weight
- ✓ Wellhead Pressure
- ✓ HMI (I)-Nitrogen Flow
- ✓ Tubing Speed
- ✓ Fluid Total
- ✓ HMI (I)-NitrogenTotal
- ✓ Depth

Save

Start a DART Job

The screenshot shows the Medco Tas v0.9.28 DART software interface. The top menu bar includes File, Edit, View, Window, and Help. The top right corner displays the MEDCOTAS DART logo, a UK flag, the MEDCO name, and a user profile for Boris Johnson with 'USB key Active' status. The main interface features a green header bar with a play button, a job name field containing 'Demo Job 1', a location dropdown menu set to 'Demo Location', and buttons for 'Open Job' and 'Assign TAS'. Below the header, there are two main data display sections. The first section, titled 'On 0s', includes a date '19-07-2022', a 'Select string' dropdown, and a vertical stack of sensors: Weight ind (0.0, lbs), Wellhead p (0.0, psi), Circulation (0.0, psi), Tubing Spd (0.0, ft/min), and Depth (0.0, ft). The second section, titled 'Fluid ...', includes 'Fluid Flow' (0.0, m³/min) and 'Fluid Total' (0.0, m³). Both sections have 'Reset Zoom' and 'Full Screen' buttons. Three blue arrows point to the play button, the job name field, and the location dropdown, with corresponding text annotations: 'Click the PLAY button to start recording', 'Give the job a name', and 'Ensure location is selected'. The status 'No data to display' is shown in both main sections.

Medco Tas v0.9.28 DART

File Edit View Window Help

MEDCOTAS DART

UK MEDCO Boris Johnson USB key Active

On 0s 19-07-2022 Select string Demo Job 1 Demo Location Open Job Assign TAS

Connections Workspace preset 1

Reset Zoom Full Screen

CT Par...

Weight ind 0.0, lbs

Wellhead p 0.0, psi

Circulation 0.0, psi

Tubing Spd 0.0, ft/min

Depth 0.0, ft

No data to display

Click the PLAY button to start recording

Give the job a name

Ensure location is selected

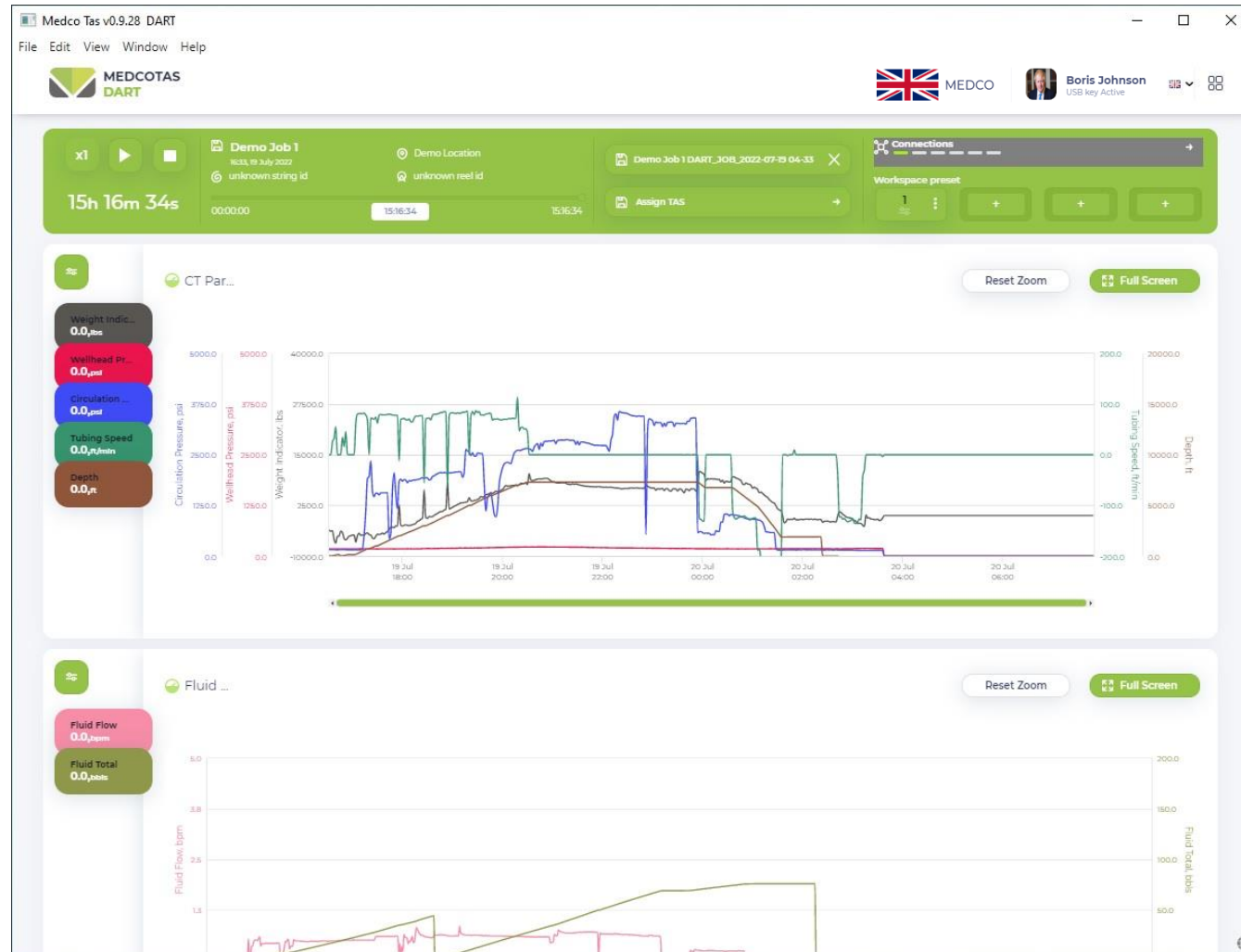
Fluid ...

Fluid Flow 0.0, m³/min

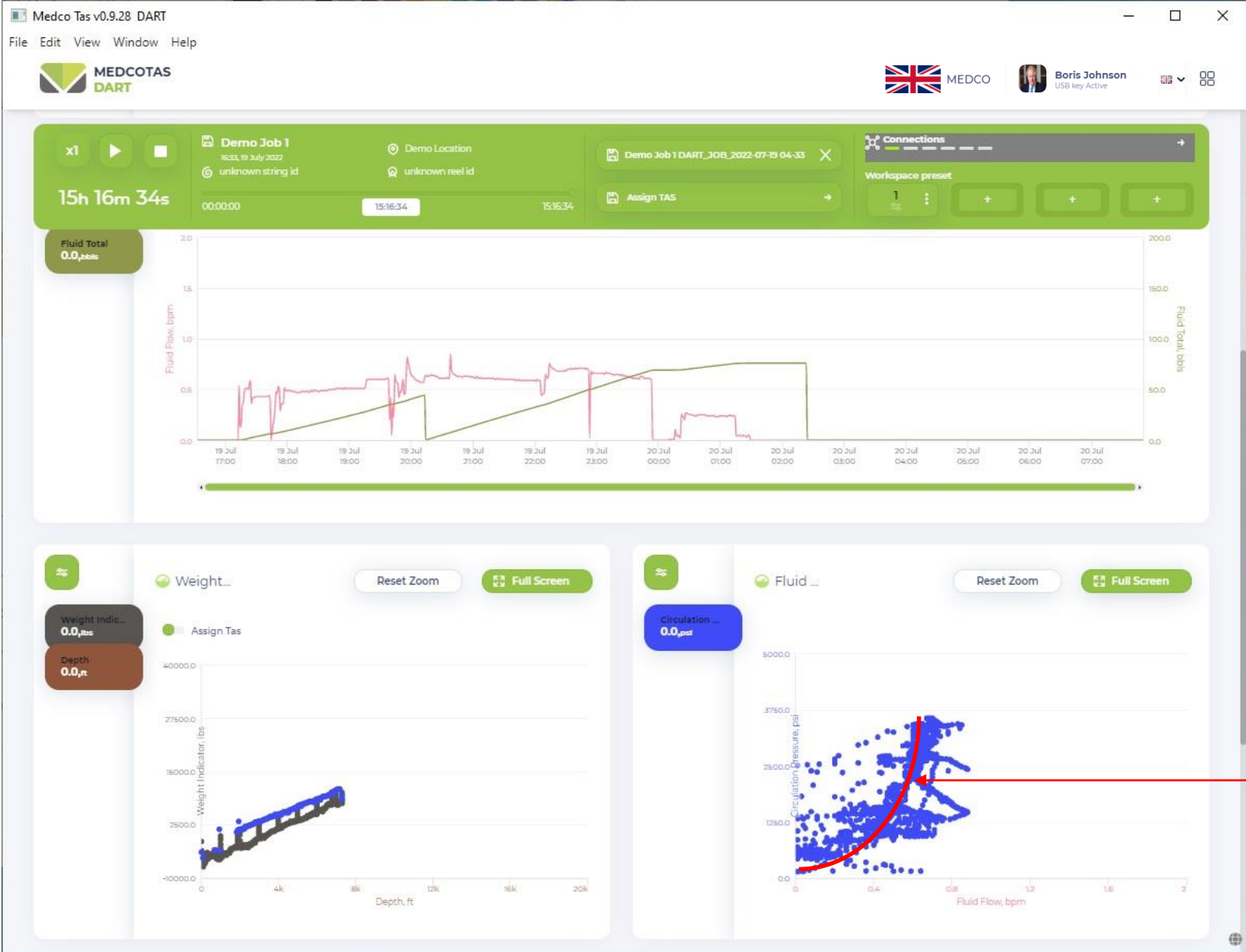
Fluid Total 0.0, m³

No data to display

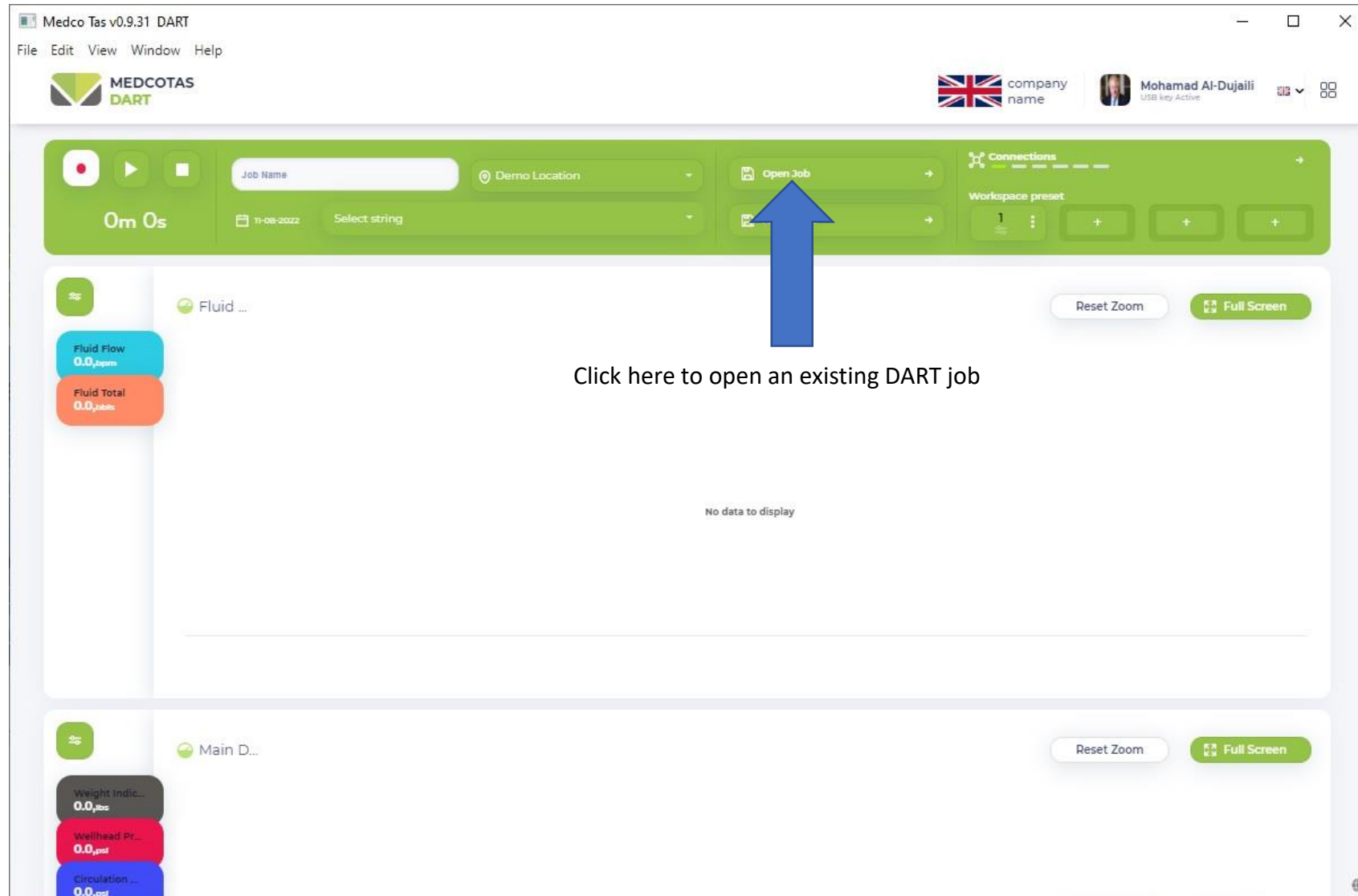
Data Display in Real Time



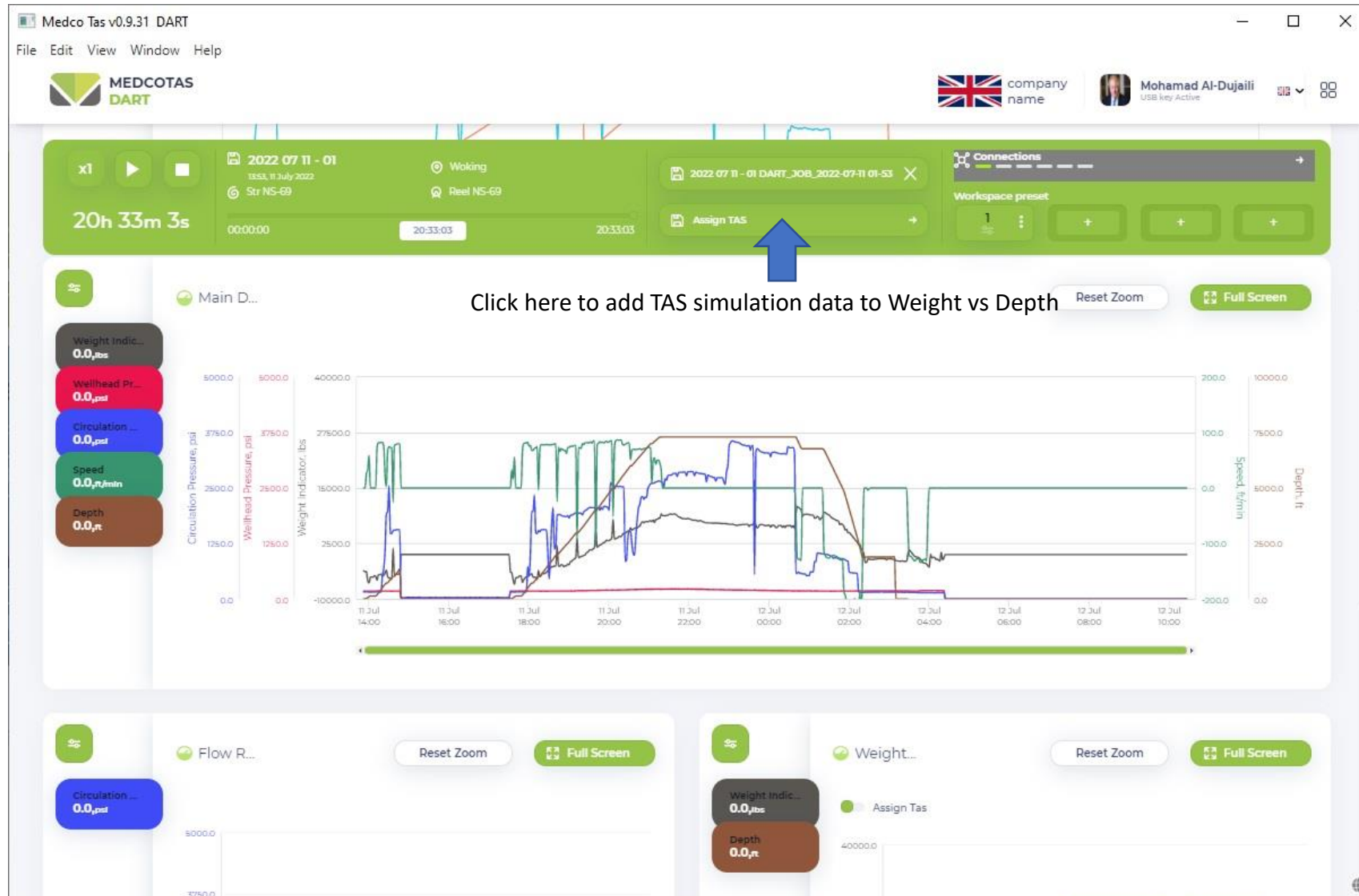
Correlation Charts Display



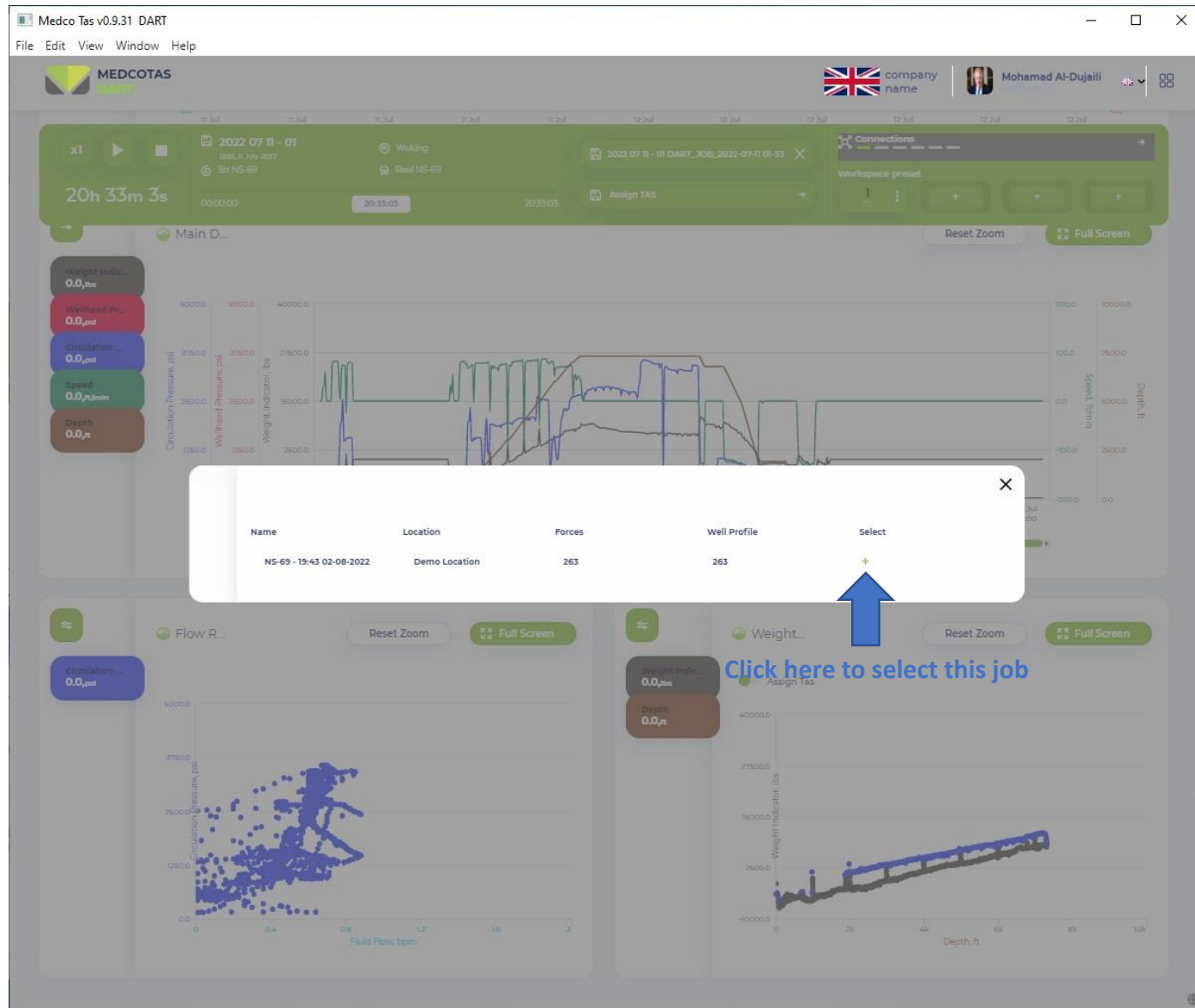
Playback and Generating DART Reports



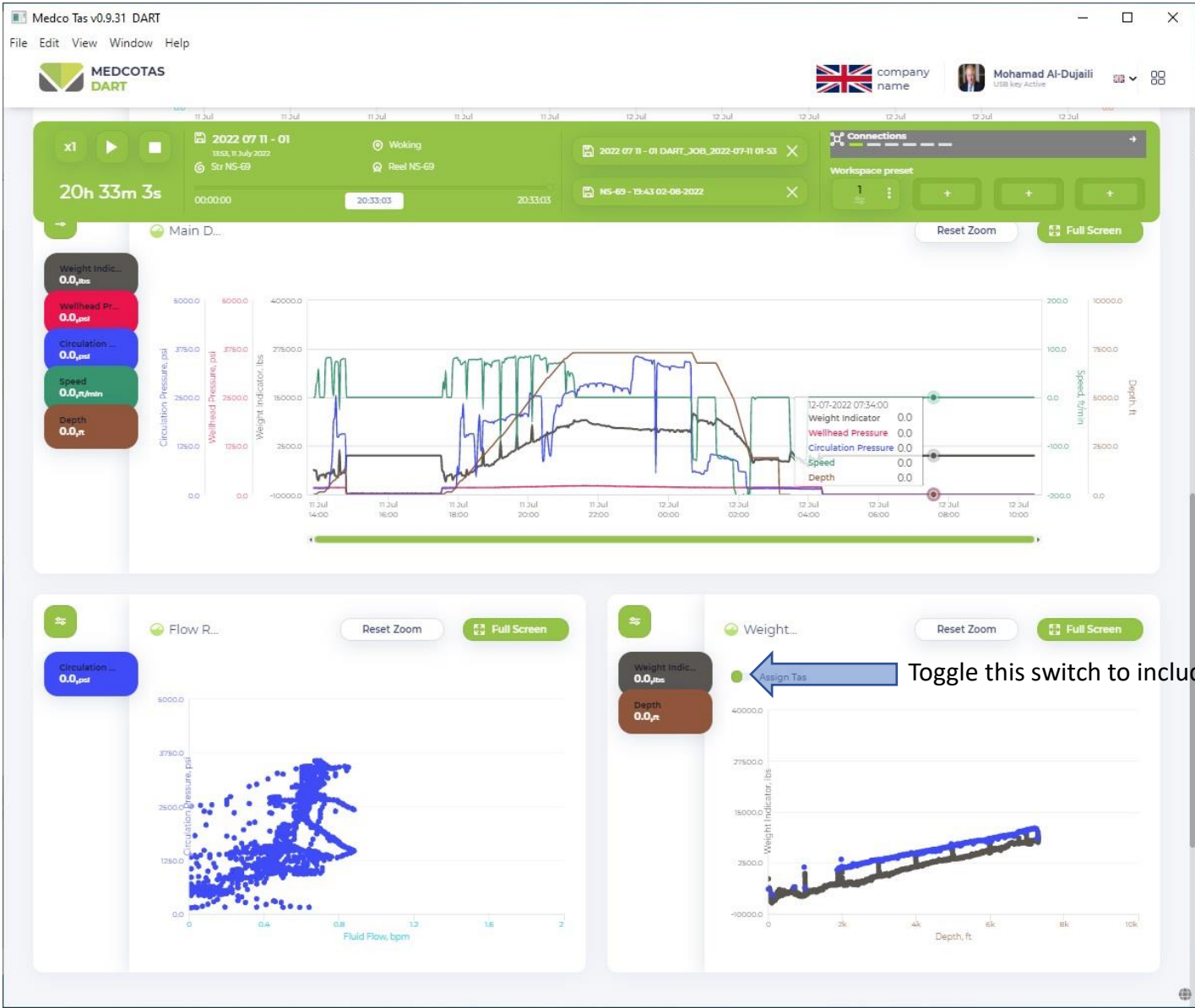
Assigning TAS Simulation Results



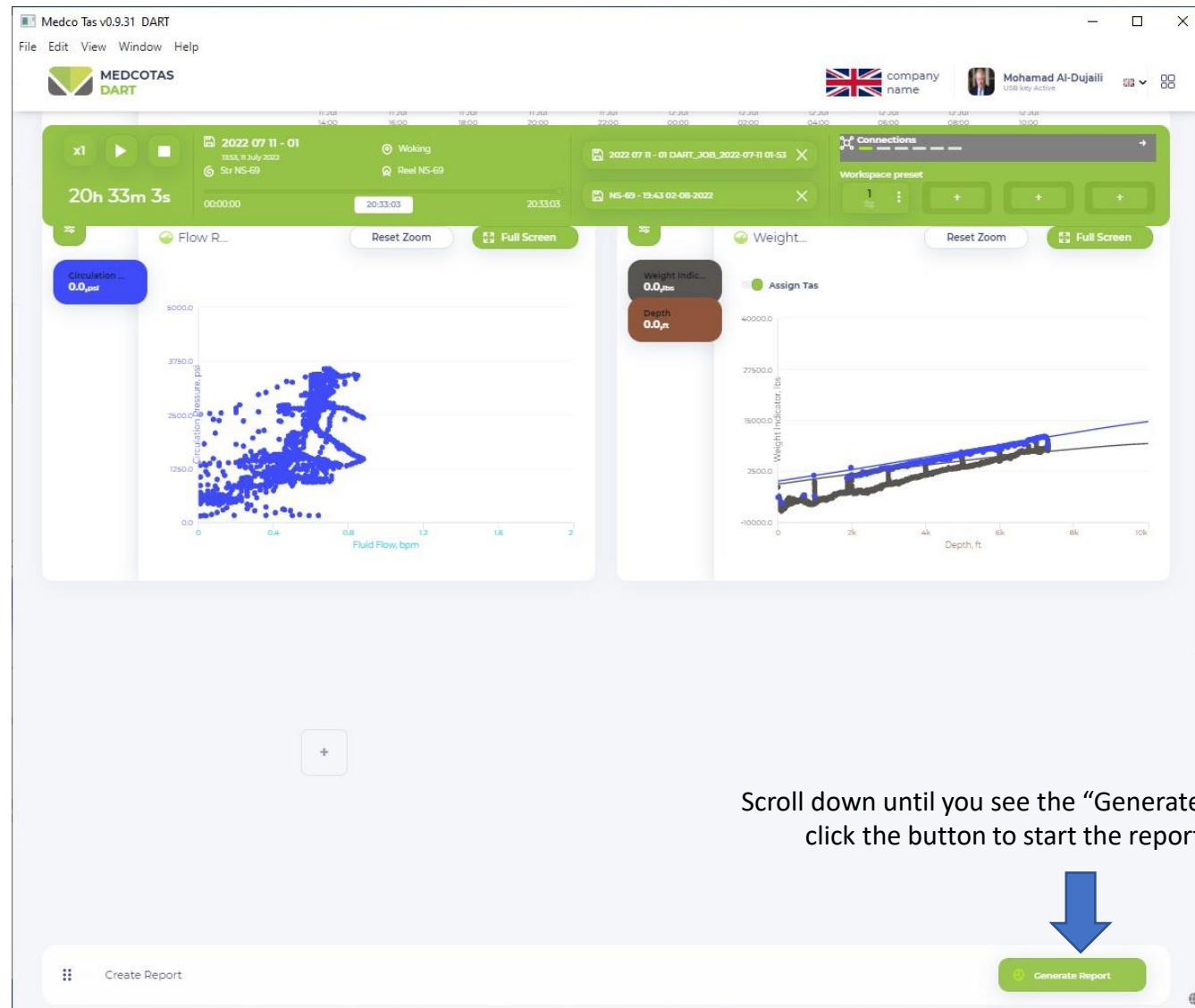
Selecting TAS Job



Add TAS Simulation Results to Weight vs Depth Chart



Generate DART Report



Scroll down until you see the “Generate Report” button, click the button to start the report generation

Customising DART Report

Medco Tas v0.9.31 DART

File Edit View Window Help

MEDCOTAS

company name

Mohamad Al-Dujaili
USB Key Active

Go Back

Report Name: Dart Report for 2022 07 11 - 01

< 2 / 2 >

11.08.2022

Client

Company
Medco

Job
2022 07 11 - 01

Well Location
Woking

Equipment
Str NS-69 -- Reel NS-69

Supervisor

Witness

Summary Report

Customize Components

Save

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www.medcotas.com

in Real Time(DART) software
by
Modelling Engineering & Development Company
www.medcotas.com
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Data Acquisition

Medco
www.medcotas.com

Enter customer name


Enter supervisor name


Enter witness name


Customise DART Report ... continued

Medco Tas v0.9.31 DART

File Edit View Window Help

 MEDCOTAS

 company name

 Mohamad Al-Dujaili
USB key Active

Go Back

Report Name: Dart Report for 2022 07 11 - 01

< 2 / 2 >

11.08.2022

Client: Demo Oil & Gas

Company: Medco

Job: 2022 07 11 - 01


Well Location: Woking

Equipment: Str NS-69 -- Reel NS-69



Supervisor: Mohamad


Witness: Boris

☒ Summary Report

 **Customize Components**


Save


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Click here to graphs/data

Adding Charts to the Report

Medco Tas v0.9.31 DART

File Edit View Window Help

MEDCOTAS

Go Back

Report Name: Dart Report for 2022 07 11 - 01

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Customize reports components

Components included in reports

Main Data

Available components

Flow Rate v Pump Pressure

Weight v Depth

Fluid Data

Main Data

Drag and drop the chart to be included

Save

Further Chart Customising

The screenshot displays the Medco Tas v0.9.31 DART application window. The main interface is titled 'Customize reports components' and features a sidebar on the left with a 'Go Back' button and a 'Report Name' field containing 'Dart Report for 2022 07 11 - 01'. The main content area is divided into two sections: 'Components included in reports' and 'Available components'. The 'Components included in reports' section shows a list of components, with 'Main Data' selected. A blue arrow points to a gear icon next to 'Main Data'. The 'Available components' section lists several options: 'Flow Rate v Pump Pressure', 'Weight v Depth', 'Fluid Data', and 'Main Data'. A 'Save' button is located at the bottom right of the main interface.

Click here to further customise chart

Chart Configuration

Data From: 11-07-2022 13:53:40

Data To: 12-07-2022 10:26:43

☒ Interval per page(max 21h)

Interval per page: 0

☒ Include job comments

Choose chart to compare with: Secondary chart

Add Chart Footnotes (max 50 characters):

Save

Disclaimer: No warranty implicit explicit by MEDCO as to the accuracy of the data is subject to End User License Agreement (EULA) of the T...

This report generated by MedcoTas Software v 0.9.31

Split Chart into Smaller Intervals

Toggle this switch to split the chart into smaller intervals



Chart Configuration

Data From: 11-07-2022 13:53:40

Data To: 12-07-2022 10:26:43

☒ Interval per page (max 21h)

Interval per page: 2

☒ Include job comments

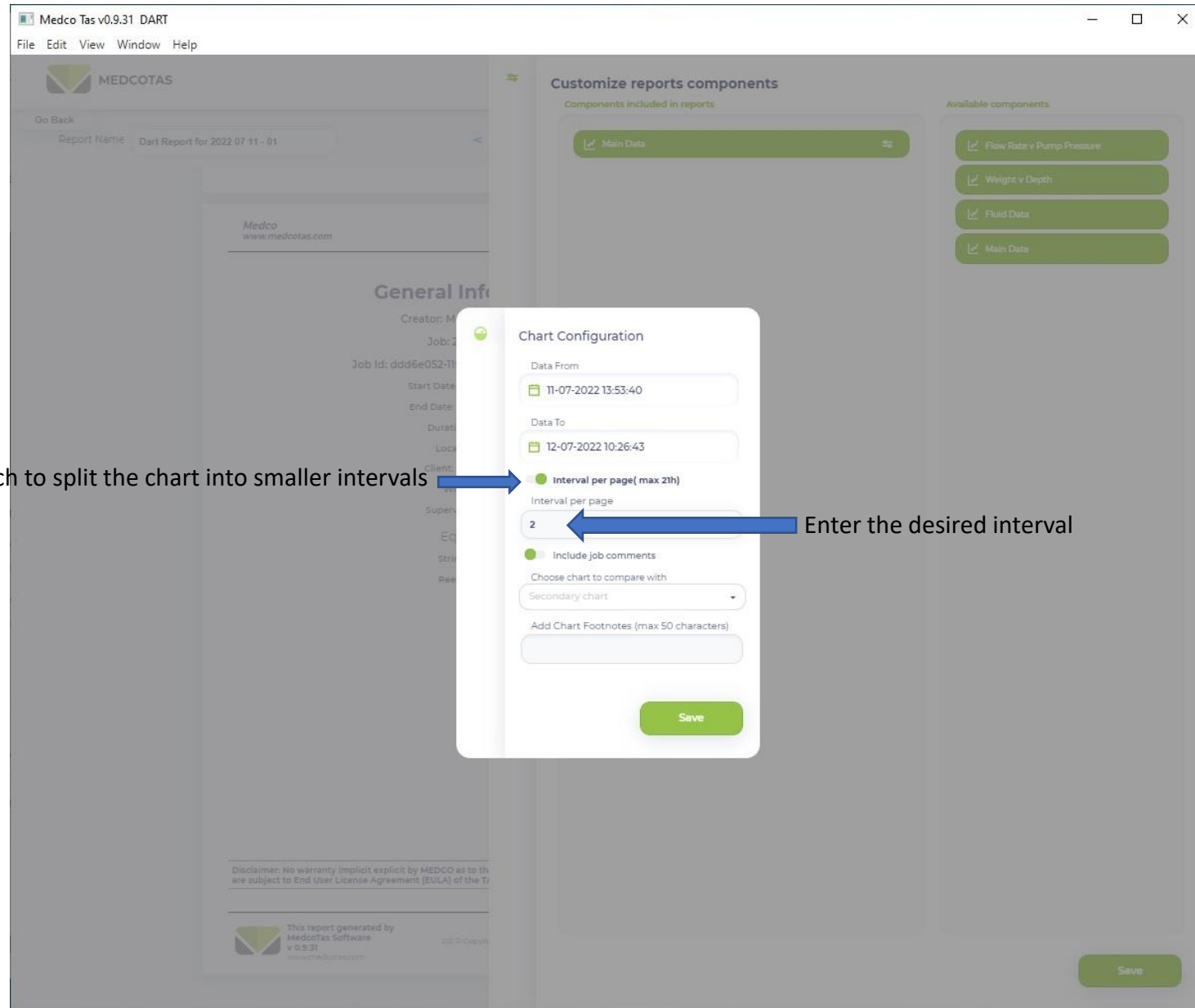
Choose chart to compare with: Secondary chart

Add Chart Footnotes (max 50 characters)

Save



Enter the desired interval



Add more Charts in DART Report

Medco Tas v0.9.31 DART

File Edit View Window Help

MEDCOTAS

Go Back

Report Name Dart Report for 2022 07 11 - 01

This report generated by MedcoTas Software v 0.9.31 www.medcotas.com

Medco www.medcotas.com

Fluid Data

0 10 20 30 40 50

0 0.2 0.4 0.6 0.8

11 Jul 14:00 11 Jul 16:00 11 Jul 18:00 11 Jul 20:00 11 Jul 22:00 12 Jul 00:00 12 Jul 02:00 12 Jul 04:00 12 Jul 06:00 12 Jul 08:00 12 Jul 10:00

Customize reports components

Components included in reports

- ☒ Main Data
- ☒ Fluid Data
- ☒ Weight v Depth

Available components

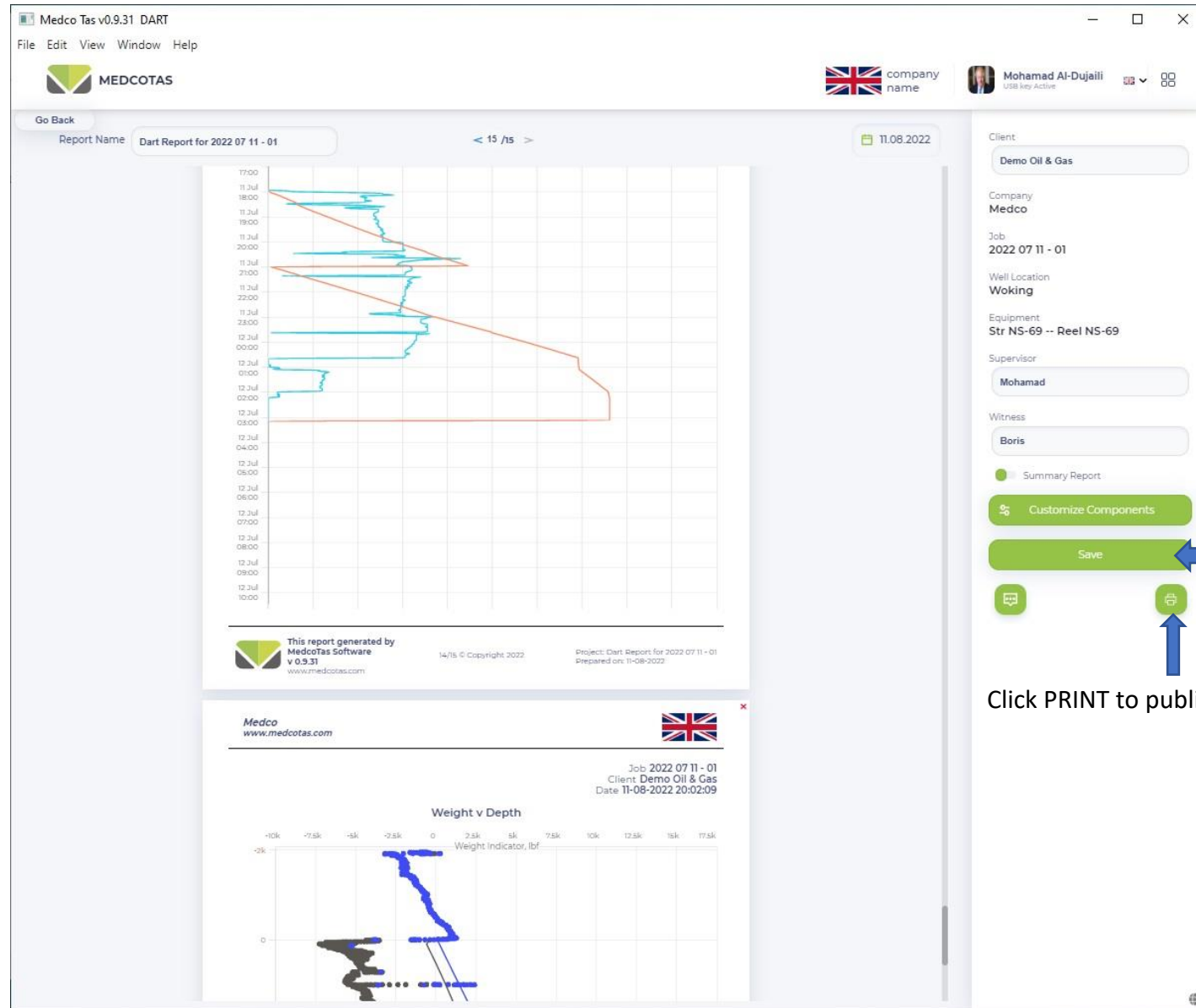
- ☒ Flow Rate v Pump Pressure
- ☒ Weight v Depth
- ☒ Fluid Data
- ☒ Main Data

Note:
A chart can be added more than once. For example, if it is desired to show “Main Data” for the whole job (21 hours in this example) as well as sub-divide it into smaller intervals, then drag & drop “Main Data” twice

When finished configuring the report, click SAVE

Save

Report Ready to Publish



Printing/Publishing the Report

