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FUELS AND LUBRICANTS LAUNCH

UNIFY TRAINING GUIDE

Customer Use

 ANOVA



Welcome to your Anova Unify Fuels and Lubricants Training.




Introduction

This Fuels and Lubricants (F&L) training is focused on the Anova Unify Platform.

The training is split into two major modules





- Set-up – this section is creating the groundwork for your day-to-day work to be built on, this is the basic requirements to get Fuels and Lubes up and running. Changes and additions are required to be made within SETTINGS to activate the Fuels and Lubricant Options
 - Distributor Details
 - Products
 - Vessels
- Day-to-day – this section will outline the steps for New Deployment and reporting.

Reference Colors




-  Mandatory Field
-  Optional Field
-  Critical field

MODULES

SET-UP

-  Settings – Creating and Editing
-  Thresholds – Creating and Editing
-  Products - Creating and editing
-  Vessels (Tanks) – Creating and Editing

Day-to Day

-  New Deployment
-  Calibration
-  Reporting and Notifications



SET-UP



DISTRIBUTOR DETAILS

A new field has been added to the Distributor Details Tab called **Product Groups**, selecting the relevant Product Groups will activate additional functionality within Unify.

The screenshot shows the 'Distributor' tab in the 'Details' sub-tab. The form includes fields for 'PARENT GROUP' (Alex Test), 'NAME*' (F & L Demo Account), 'COUNTRY*' (United States of America), and 'DEFAULT TIME ZONE*' (US/Central). A new field, 'PRODUCT GROUPS*', is highlighted with a purple circle. It is a dropdown menu with a 'Select...' placeholder and a list of options: Chemicals, Fuels And Lubricants, Heating Oil, Industrial Gases, and LPG. The 'Fuels And Lubricants' option is currently selected.

Existing Customers will have LPG pre-selected, selecting Fuels and Lubricants from the dropdown list will add this product group to this distributor, once selected, the relevant screen adjustments come into effect, allowing the user to adjust the Settings pages.

The following three (3) pages are amended to ensure fundamentals for F&L are in place:

- Products (within the Distributor Tab),

The screenshot shows the 'Distributor' tab in the 'Products' sub-tab. The sub-tab is highlighted with a yellow underline. The sub-tab options are 'Details', 'Customer Categories', and 'Products'.

- Thresholds (within the Operations Tab)
- Vessels (within the Operations Tab)

The screenshot shows the 'Distributor' tab in the 'Operations' sub-tab. The sub-tab is highlighted with a yellow underline. The sub-tab options are 'Tank groups', 'Level thresholds', and 'Vessels'.

THRESHOLDS

The screenshot shows a web interface for configuring tank thresholds. At the top, there are navigation tabs: Distributor, Integrations, Anova Go, Devices, and Operations. Below these are sub-tabs: Tank groups, Level thresholds, and Vessels. The 'Level thresholds' sub-tab is active, showing two sections: 'LPG' and 'Fuels and Lubricants'. Each section has a 'SAVE' button and an 'Advanced' dropdown menu. A yellow arrow points to the 'LPG' section, and another yellow arrow points to the 'Fuels and Lubricants' section. The 'LPG' section shows a vertical scale with markers at 10%, 20%, 40%, and 80%. The 'Fuels and Lubricants' section shows a vertical scale with markers at 10%, 20%, 40%, and 95%.

Threshold Level	LPG (%)	Fuels and Lubricants (%)
VERY CRITICAL*	10	10
CRITICAL*	20	20
WARNING*	40	40
OVERFILL*	80	95

Thresholds are set per Product Group, these are the default threshold levels that will be applied during a new deployment, the user will still have the opportunity to change the thresholds for each deployment. The default levels is the Distributors “preferred” levels and should be applied to the majority of tanks within that Product Group.

As can be seen in the screen shot on the left, this customer has LPG as well as Fuels and Lubricants, the user therefore has the ability to set default threshold levels for each group.

During the New Deployment process the User will indicate whether the tank will be LPG or F & L and the system will retrieve the relevant default from the settings screen

PRODUCTS

Introduction

Identifying the product stored in the tank is not only important for reporting and control purposes but critical for the calibration process.

Each F & L Product has a Specific Gravity (SG), the SG is generally known by the distributor, but if not, a generic SG is easily obtainable via an internet search. The SG of a fluid is stated at a specific temperature as a ratio to fresh water at sea level.

Creating Products

Creating a list of Products with their Specific Gravity provides a default product list to be available for your users and streamlines the New Deployment Process.

Editing/Deleting Products

It is important to keep the Product List Updated to ensure the details in the list are accurate. Updating Specific gravity or Product Names helps maintain relevant and accurate information accurate for users.

In the same way , Deleting unused Products, reduces the risk users selecting incorrect products. Important to note that any Product in use on an active tank cannot be deleted.

PRODUCTS

CREATING A NEW PRODUCT:

1. Type the new product's **NAME**.
2. In the **PRODUCT GROUP**, select the option **FUELS & LUBRICANTS**.
3. **PRODUCT TYPE** select the type/category in which your **NEW PRODUCT** falls into, for example:
 1. Diesel (on road);
 2. Gasoline;
 3. Lubricant 15W40;
 4. Diesel Exhaust Fluid (DEF);
 5. Etc.
4. (OPTIONAL) - You can add any notes relevant to this new product on the **DESCRIPTION** section.
5. The **SPECIFIC GRAVITY**, is automatically completed based on the **Product Group selected**, however, this can be manually amended if required.
6. (OPTIONAL) - If your company uses a reference code number for this product you can add it on **EXTERNAL REFERENCE** section.
7. Click on **CREATE** to upload the new product to the Platform.

The screenshot shows a 'New Product' form with a 'Details' section. The form is titled 'New Product' and has a 'Details' sub-header with a close button (X). The form contains several input fields and dropdown menus, each highlighted with a numbered callout:

- 1. **NAME*** (Text input field)
- 2. **PRODUCT GROUP*** (Dropdown menu with 'Select a product group' text)
- 3. **PRODUCT TYPE*** (Dropdown menu with 'Select a product type' text)
- 4. **DESCRIPTION** (Text input field)
- 5. **SPECIFIC GRAVITY** (Text input field)
- 6. **EXTERNAL REFERENCE** (Text input field)
- 7. **CREATE** button (Grey button with white text)

At the bottom right, there is a 'CANCEL' button (White button with grey text) and a 'CREATE' button (Grey button with white text). The 'CREATE' button is highlighted with a blue circle and a blue callout box with the number 7.

PRODUCTS CONTINUED

EDITING AN EXISTING PRODUCT:

1. Clicking on a product from the existing product list will open the **Edit Product Page**

Distributor Anova Go Devices Operations

Details Customer Categories **Products**

F & L Demo Account
2 products

Search products + New Product

PRODUCT	TYPE	GROUP	SPECIFIC GRAVITY	EXTERNAL REFERENCE
Cooking Oil	Other	Fuels and Lubricants	0.82	j24E
Diesel - On Road	Diesel (on road)	Fuels and Lubricants	0.84	--

2. Edit the product details as needed (for example: product description; product specific gravity, etc.)
3. Click **SAVE** to upload these changes to the platform.

Edit Product

Details

Delete Product

Details X

NAME*
Diesel - On Road

PRODUCT GROUP*
Fuels And Lubricants

PRODUCT TYPE*
Diesel (on road)

DESCRIPTION

SPECIFIC GRAVITY
0.84

EXTERNAL REFERENCE

CANCEL SAVE

PRODUCTS CONTINUED

DELETING AN EXISTING PRODUCT:

1. On the **EDIT PRODUCT** Page, click on **DELETE PRODUCT** to erase the selected product from the platform.
2. The Platform will ask you to confirm before proceeding to delete the product selected. Click **DELETE** to confirm.

Note: If products are in Use on existing tanks – that CANNOT be deleted

Edit Product

Details

Delete Product 1

Details ✕

NAME*
Diesel - On Road

PRODUCT GROUP*
Fuels And Lubricants

PRODUCT TYPE*
Diesel (on road)

DESCRIPTION

SPECIFIC GRAVITY
0.84

EXTERNAL REFERENCE

CANCEL SAVE

Edit Product

Details

Delete Product

Delete Product?
Are you sure you want to delete Diesel - On Road?

CANCEL **DELETE** 2

CANCEL SAVE

VESSELS

Introduction to vessels

Tank Shape and Dimensions are critical to the calibration process for F&L.

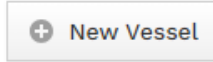
Once we the shape and dimensions (adjusted for inner dimension (bunded, false bottom etc, if applicable)) we can create a strapping chart that correlates inches of water to gallons of liquid.

Creating vessels within settings in Anova Unify allows the User to create a library/database of vessels/tanks for future use, once created the Vessel/Tank is a pre-defined option with the Capacity, dimensions and shape of tanks available for use in deployment

VESSELS

Creating a New Vessel

- Click on the new vessel button on the top right of the screen.
- On the New Vessel page that opens, you will note compulsory(*) and optional fields:
 1. Name - Create a name for your Vessel (it is important that the Company agreed naming convention is adhered to, so that all users understand the Vessel details).
 2. Product Group - the system will display the company's Product groups selected in Settings (if the company only has one product group this will be pre-populated). Select the product group in which this vessel will be used.
 3. Manufacturer - if the manufacturer of the tank is known, the Name is entered in this field.
 4. Model - if the tank Model number is known it should be entered in this field.
 5. Shape - Select the relevant shape of the tank from the drop-down options, this will expand the page showing you an image of the tank and fields to enter the Dimensions.



The screenshot shows the "New Vessel" form with the following fields and callouts:

- 1**: NAME* (Text input field containing "Standard Horizontal 500")
- 2**: PRODUCT GROUP* (Dropdown menu showing "Fuels And Lubricants")
- 3**: MANUFACTURER (Text input field)
- 4**: MODEL (Text input field)
- 5**: SHAPE* (Dropdown menu showing "Horizontal Cylinder")

Below the shape selection, there is a 3D diagram of a horizontal cylinder with dimensions labeled: D (Diameter), L (Length), and a shaded rectangular area on the top surface. To the right of the diagram are input fields for:

- DIAMETER* (Text input field with "in" unit dropdown)
- LENGTH* (Text input field with "in" unit dropdown)
- ADJUSTED CAPACITY* (Text input field with "gal" unit dropdown)
- CAPACITY* (Text input field with "gal" unit dropdown)

At the bottom right, there are two buttons: "CANCEL" and "CREATE VESSEL".

VESSELS CONTINUED...

The screenshot shows the 'New Vessel' form with the following fields and callouts:

- 1** Details (tab)
- NAME***: Standard Horizontal 500Gal
- PRODUCT GROUP***: Fuels And Lubricants
- MANUFACTURER**: (empty)
- MODEL**: (empty)
- SHAPE***: Horizontal Cylinder
- 6** (red box): Diameter* and Length* input fields with units (in).
- 7** (blue box): ADJUSTED CAPACITY* toggle switch.
- 8** (blue box): CAPACITY* input field with units (-- gal).
- CANCEL** and **CREATE VESSEL** buttons.

Creating a New Vessel

6. Dimensions* - Dimension requirements differ based on the tank shape selected. The Diagram labelling will guide you when entering the Tank Dimensions, by highlighting the Relevant label when your cursor is within that Dimension field.
7. Capacity* - once the dimensions are entered the system will calculate the Capacity of the tank
8. Adjusted Capacity* - if the user does not agree with the Capacity calculated by the system, **and** they are happy that the Dimensions are correct they can adjust the capacity of the tank by activating the adjusted capacity Button and entering the expected capacity.

Adjustments may only be lower than the calculated capacity

Using the adjusted capacity overrides the calculated capacity and this is the value that will be carried forward for new deployments

- Once complete, Click on “Create Vessel” on the bottom right of the screen

CREATE VESSEL

VESSELS CONTINUED....

Distributor Integrations Anova Go Devices **Operations**

Tank groups Level thresholds **Vessels**

F & L Demo Account 2 vessels

VESSEL	SHAPE	DIMENSIONS	PRODUCT GROUP	CAPA...
Horizontal Tank	Horizontal Cylinder	D - 45 in L - 70 in	Fuels and Lubricants	482 gal
Standard Hor...	Horizontal Capsule	L - 42 in D - 45 in C - 12 in	Fuels and Lubricants	500 gal

Edit Vessel

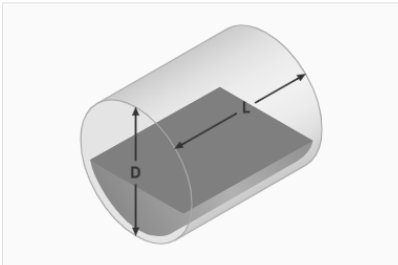
Details Delete vessel

Details

NAME* PRODUCT GROUP*

MANUFACTURER MODEL

SHAPE*



DIAMETER* in

LENGTH* in

ADJUSTED CAPACITY* 482 gal CAPACITY* 482 gal

Editing a Vessel

Created vessels are stored under the Vessel tab In the Operations Tab of Settings.

- Select the vessel that requires editing by clicking on the vessel from the list available. This will open the Edit Vessel page.
- All fields are available for change
- Once relevant changes are made, click on Save to update the vessel.

Deleting a Vessel

It is important to note that if a vessel is in use as part of a deployment that it cannot be deleted, only vessels that have not been included as part of a deployment can be deleted.

- Select the vessel that requires deleting by clicking on the vessel from the list available. This will open the Edit Vessel page.
- Click on Delete Vessel (in red) on the left side of the Edit Vessel page.
- Once relevant changes are made, click on Save to update the vessel.

TANK CATEGORIES

A Tank Category allows the user to define default level thresholds for Tanks based on, for example:

- the usage rate consumption (if it's a group of high usage Tanks or Low usage Tanks).
- the type of product being consumed (different products could need different level thresholds).

ADDING A TANK CATEGORY:

1. Select the SETTINGS Menu. Click on the Operations Tab and select the Tank Categories Page. On the top-right corner click on the NEW TANK CATEGORY Button.
2. Insert the name of the new Tank Category.
3. Select the Product Group the new Tank Category will apply to (only one product group can be selected).
4. (OPTIONAL) Select the type of product(s) this Tank Category will apply to (more than one product type can be selected).
5. Select the desired level thresholds for this Tank Category. Four values must be selected:
 1. Overfill Level Threshold.
 2. Warning Level Threshold;
 3. Critical Level Threshold;
 4. Very Critical Level Threshold;
6. Click NEXT button to proceed to Section 2 – Tank.
7. (OPTIONAL – ONLY FOR F&L) Select the Type of Vessel this Tank Category will apply to. NOTE: The Type of vessel should have already been created before creating the new tank Category.
8. Click NEXT button to proceed to Section 3 – Communication.

The image displays two screenshots of the 'Create tank category' interface, illustrating the steps for adding a new tank category.

Top Screenshot: Category Step

- 1 Category:** The process starts with the 'Category' step.
- 2 NAME*:** The user enters 'High usage tanks'.
- 3 PRODUCT GROUP*:** The user selects 'Fuels and Lubricants'.
- 4 PRODUCT TYPE:** The user selects 'Select...'.
- 5 Use default settings:** A toggle switch is turned on. The thresholds are: WARNING* (40%), CRITICAL* (20%), VERY CRITICAL* (10%), and OVERFILL* (95%).
- 6 NEXT:** The user clicks the 'NEXT' button to proceed.

Bottom Screenshot: Vessel Step

- 7 VESSEL:** The user selects 'New Vessel'.
- Diagram:** A 3D diagram of a vessel is shown with dimensions D (Diameter) and L (Length).
- Dimensions:** DIAMETER: 100 in, LENGTH: 100 in, CAPACITY: 3400 gal.
- 8 NEXT:** The user clicks the 'NEXT' button to proceed.

TANK CATEGORIES

ADDING A TANK CATEGORY (CONTINUED):

9. Select the Communication Frequency (if it's daily or multiple times a day).
10. If daily, select the Communication Interval Start Time and End Time (default Interval: 24 hours; minimum Interval: 1 hour).
11. Click NEXT button to proceed to Section 4 – Confirmation.
12. Confirm all info and finish creating the new tank category.
13. The New Tank Category will appear right after in the Tank Categories Page.

Create tank category

Communication

This category will be added to rg-fl3.

9 COMMUNICATION FREQUENCY

Daily

Multiple times a day

10 COMMUNICATION TIME - START*

12:00 AM US/Eastern (-04:00)

COMMUNICATION TIME - END*

11:59 PM US/Eastern (-04:00)

11

PREVIOUS NEXT

NOTE: When creating a New Deployment, the Tank Category can be selected, and all data related will be filled automatically (level thresholds; vessel; communication frequency).

New deployment

1 Site

2 Tank

3 Device

4 Calibration

Tank

This tank will be added to 2134 site.

Details Location Level thresholds

TANK* My new tank

TANK CATEGORY High usage tanks

TANK ID

CUSTOMER CATEGORY Select

PRODUCT* Diesel

SPECIFIC GRAVITY* 0.84

VESSEL* New Vessel

SHAPE* Horizontal Cylinder

Settings / Anova / rg-fl3 / Operations / Tank categories

Distributor Devices Operations

Tank categories Tank groups Level thresholds Vessels

rg-fl3
3 tank categories

Search tank categories New tank category

TANK CATEGORY	PRODUCT GROUP	PRODUCT TYPES	LEVEL THRESHOLDS	VESSEL	CAPACITY	Nº OF TA...
High usage tanks	Fuels and Lubricants	--	10% 20% 40% 95%	New Vessel	3400 gal	1
Tank category FL	Fuels and Lubricants	Diesel (off road dyed)	10% 20% 40% 95%	New Vessel	3400 gal	1
Tank category LPG	LPG	Butane, LPG	10% 20% 40% 80%	--	10000 gal	1

DAY-TO-DAY



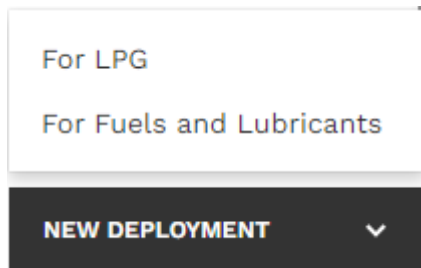
DAY-TO DAY

General day-to-day work will entail new deployments, editing existing data and creating and editing reports and notifications.

New Deployment

The new deployment process involves the creation of a site and/or tank and the association of a device to the tank within the distributors' structure.

Clicking on the New Deployment Button at the bottom of the screen (under Operations) will prompt the user to select the new deployment process to be followed, as each option has its own process, functions and features that are initiated by this selection.



NEW DEPLOYMENT CONTINUED

The new deployment screens have a standard workflow: Site, Tank, Device and Calibration. In comparison to the older LPG screens, the new deployment screens for F&L are consolidated in their appearance.

Creating a Site

1. Structure fields are defined, the user first selects the relevant point in the structure where this site needs to be created. Even though the current structure is available in the Drop-down menus, the user has the option of adding new entries into the relevant part of the structure by manually typing the desired name and clicking on Create.

DISTRICT*

Select a district ^

East

West

DISTRICT*

South ^

No matches found

Create "South" +

New deployment

Site

This tank will be added to **F & L Training**

1 DISTRICT* Select a district v CUSTOMER* Select a customer v 4 LATITUDE LONGITUDE

SITE* Select v

2 ACCOUNT ID

SITE ID DISTRIBUTOR EXT. REFERENCE

3 COUNTRY* United States of America v

TIME ZONE* US/Central v ZIP CODE

STATE/PROVINCE/REGION CITY

Search location

CANCEL NEXT

NEW DEPLOYMENT CONTINUED

Creating a Site continued...

- If Relevant for ERP/Back Office/ Integration systems, enter Account ID and Site ID.
 - Distributor ext reference is a data field that is available for reporting purposes, should it be required for relevant 3rd party systems.
- Complete the standard address fields.
- The user can enter the Latitude and longitude co-ordinates or alternatively search the co-ordinates by using the search Location field in the map image.

New deployment

Site

This tank will be added to **F & L Training**

1 DISTRICT* Select a district

CUSTOMER* Select a customer

4 LATITUDE

LONGITUDE

SITE* Select

2 ACCOUNT ID

SITE ID

DISTRIBUTOR EXT. REFERENCE

3 COUNTRY* United States of America

TIME ZONE* US/Central

ZIP CODE

STATE/PROVINCE/REGION

CITY

Search location

CANCEL NEXT

NEW DEPLOYMENT CONTINUED

CREATING A TANK

USING A STANDARD TANK/VESSEL

New deployment

Site
2 Tank
3 Device
4 Calibration

Tank ×

This tank will be added to **F & L Training Site** site

Details Location Level thresholds

NAME* 1

TANK ID 2 CUSTOMER CATEGORY 3

PRODUCT* 4 SPECIFIC GRAVITY* 5

VESSEL* 6 SHAPE* 7

PREVIOUS NEXT

1. Name the tank, the user should use company agreed naming conventions.
2. Tank ID should be completed if this information is required for ERP/ Back Office/ Integration requirements.
3. If Customer category is something the Company uses, then the user should select a category relevant to this tank and/or site.
4. Product, the products available in the drop shown are created within the settings section of the Platform, select the relevant product.
5. Specific gravity will default based on the information created in the Product information, however, if there is a variance on the default value the correct value can be manually entered – this will not affect the existing default specific gravity for this product.
6. A list of standard vessels that the company has created are in the Vessel drop down – These Vessels were created under settings on the platform.
7. The shape will default once the vessel is selected, this will also populate the dimensions, the tank image and a strapping chart.

NEW DEPLOYMENT CONTINUED

CREATING A TANK CONT.....

CREATING A CUSTOM TANK

New deployment

- 1 Site
- 2 Tank**
- 3 Device
- 4 Calibration

Tank

This tank will be added to **Site A** site

Details Location Level thresholds

NAME*
Left Of Barn

TANK ID
[]

CUSTOMER CATEGORY
Select

PRODUCT*
Off Road Diesel

SPECIFIC GRAVITY*
0.84

VESSEL*
Custom

SHAPE*
Horizontal Cylinder

DIAMETER*
[] in

ADJUSTED CAPACITY*
[] gal

PRODUCT
Off Road Diesel

SPECIFIC GRAVITY
0.84

VESSEL
Custom

DIAMETER
--

LENGTH
--

ADJUSTED CAPACITY
0 tanks

HEEL
--

Horizontal Capsule 0 tanks

Horizontal Oval 0 tanks

Rectangular 0 tanks

Rounded Rectangle 1 0 tanks

PREVIOUS NEXT

Standard tank sizes and shapes are created Under Vessels in the Settings section in the platform to allow simplification of the New deployment process, however, on the odd occasion, the user may encounter a tank that is not standard, there is therefore a need to create a customized Tank, this tank, once created, will not form part of the standard list and is only used with the site for which it is created.

Follow the Create standard tank – process to point 5.

6. Select Custom from the drop down list.
7. Select the tank Shape from the images / descriptions available in the drop down list.
8. Enter the Dimensions of the tank as well the Capacity (as the values are entered the image on the right will populate the data for reference).
9. Click on Next.

NEW DEPLOYMENT CONTINUED

CREATING A TANK CONT.....

New deployment

- Site
- 2 Tank**
- 3 Device
- 4 Calibration

Tank

This tank will be added to **Site A** site

Details Location Level thresholds

NAME*
Left Of Barn

TANK ID
[]

CUSTOMER CATEGORY
Select

PRODUCT*
Off Road Diesel

SPECIFIC GRAVITY*
0.84

VESSEL*
500G Horizontal Tank

SHAPE*
Horizontal Cylinder

DIAMETER*
60 in

LENGTH*
42 in

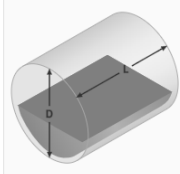
ADJUSTED CAPACITY*
500 gal

HEEL
[] in

PRODUCT
Off Road Diesel

SPECIFIC GRAVITY
0.84

95%
40%
20%
10%



VESSEL
500G Horizontal Tank

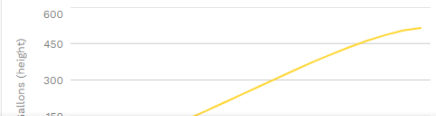
DIAMETER
60 in

LENGTH
42 in

ADJUSTED CAPACITY ⓘ Tank capacity adjusted manually.
500 gal

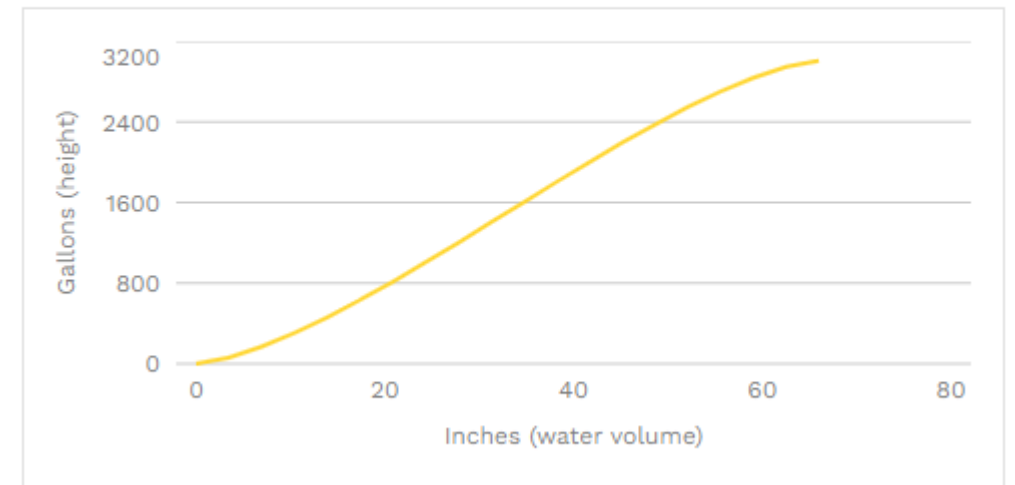
HEEL
--

STRAPPING CHART



PREVIOUS NEXT

STRAPPING CHART



Strapping chart

The Strapping chart is a visual representation of the “Height to Volume” relationship to the vessel shape and dimension. Different shape tanks will result in different graphs, interrupting the Strapping chart will allow the user to plot the expected Volume based on Inch measure.

NEW DEPLOYMENT CONTINUED

ASSOCIATE A DEVICE

If the user does not know the device number that is to be associated to the tank, they can Save the site and tank created by Activating the “finish without adding Device” Button, the screen will suppress the displayed fields and activate the “finish Button at the bottom of the screen.

This will save the Site and Tank information captured and will await Device Association and calibration.

New deployment

- ✓ Site
- ✓ Tank
- 3 Device
- 4 Calibration

Device

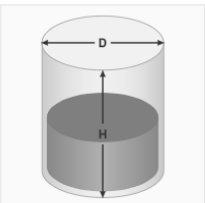
Device will be linked to tank **Left Of Barn** to **Site A** site.

Finish without adding device

PRODUCT: Off Road Diesel

SPECIFIC GRAVITY: 0.84

95%
40%
20%
10%



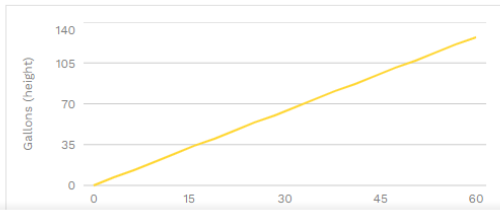
VESSEL: Custom

DIAMETER: 25 in

HEIGHT: 60 in

ADJUSTED CAPACITY: 500 gal *Tank capacity adjusted manually.* HEEL: --

STRAPPING CHART



PREVIOUS FINISH

NEW DEPLOYMENT CONTINUED

ASSOCIATE A DEVICE

1. Enter the Device Serial Number.
2. Enter the Channel in Use.
3. Select the relevant Sensor in Use (ensure you select the correct sensor as incorrect sensor will result in incorrect reading. – Once the sensor is selected the Sensor Gap to Bottom Field Becomes available
4. Last Communication – this is the date and time the device last Communicated – this is critical for calibration, If the Device has reported in within the last 8 hours the Device will calibrate automatically, If not it will calibrate on next call/Communication.
5. Sensor Gap to Bottom (See Next Slide) – if the sensor lies on the bottom of the tank we need to account for the Width of the sensor to get an accurate product reading. If the Sensor lies suspended in the product the Cable length to Height of tank will need to be calculated and entered.

New deployment

- Site
- Tank
- 3** Device
- 4 Calibration

Device

Device will be linked to tank **Left Of Barn** to **Site A** site.

Finish without adding device

1 DEVICE*
Type device serial number

2 CHANNEL*
Select

3 SENSOR*
Select

LAST COMMUNICATION
--

4

PRODUCT: Off Road Diesel
SPECIFIC GRAVITY: 0.84

95%
40%
20%
10%

VESEL: Custom
DIAMETER: 25 in
HEIGHT: 60 in

ADJUSTED CAPACITY: 500 gal
Tank capacity adjusted manually.

HEEL: --

STRAPPING CHART

Gallons (height)

Height (in)	Gallons
0	0
15	35
30	70
45	105
60	140

PREVIOUS NEXT

NEW DEPLOYMENT CONTINUED

DEVICES ASSOCIATION - COMPLETE

New deployment

- ✓ Site
- ✓ Tank
- 3 Device
- 4 Calibration

Device

Device will be linked to tank **Tank A** in **Site A** site.

Finish without adding device

DEVICE*
054692500 (SC415C665)

*This device is already linked to the tank **Diesel Tank** in the site **Sunny Acres Farm**. By using this device, it will be removed from its current site and tank which will no longer be monitored.*

CHANNEL*
B

SENSOR*
Liquid Level Pressure Sensor, 0.2 bar with 2 meter cable

SENSOR GAP TO BOTTOM*
0.5 in **5**

LAST COMMUNICATION
09/23/2024, 7:17 PM

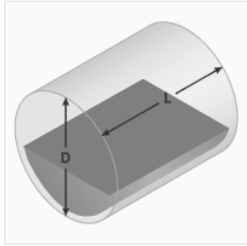
PRODUCT
Diesel

SPECIFIC GRAVITY
0.84

VESEL
HORCYL3000

DIAMETER
66 in

LENGTH
203 in

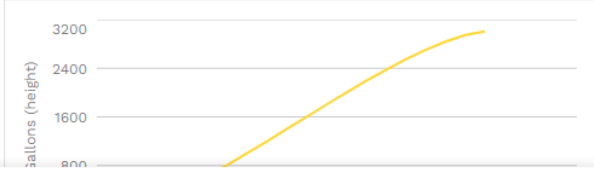


ADJUSTED CAPACITY *Tank capacity adjusted manually.*
3000 gal

HEEL
--

SENSOR GAP TO BOTTOM
0.5 in

STRAPPING CHART



PREVIOUS NEXT

AUTOMATIC CALIBRATION

On the calibration screen you will note the “Activate the Device” Instruction.

If the device is:

- Only Activated when you get to this point, wait for the device to communicate – the “Pending-Finish” button will change to “Calibrated- Finish”, the Calibration state will change to Calibrated, the Fluid height, Volume and % will be available above calibration state to view and confirm. Click “Calibrated-Finish” and the result will post on the Tanks View page
- Already activated when you get to this point you Select Pending Finish, the device will calibrate, and the tank level will appear in the Tanks View page on the NEXT call

CALIBRATION CONTINUED AND TANK VIEW

UTM + HDP follows an “Auto-calibration” process in Unify, critical fields must have accurately entered information to get the most accurate reading

Critical Fields:

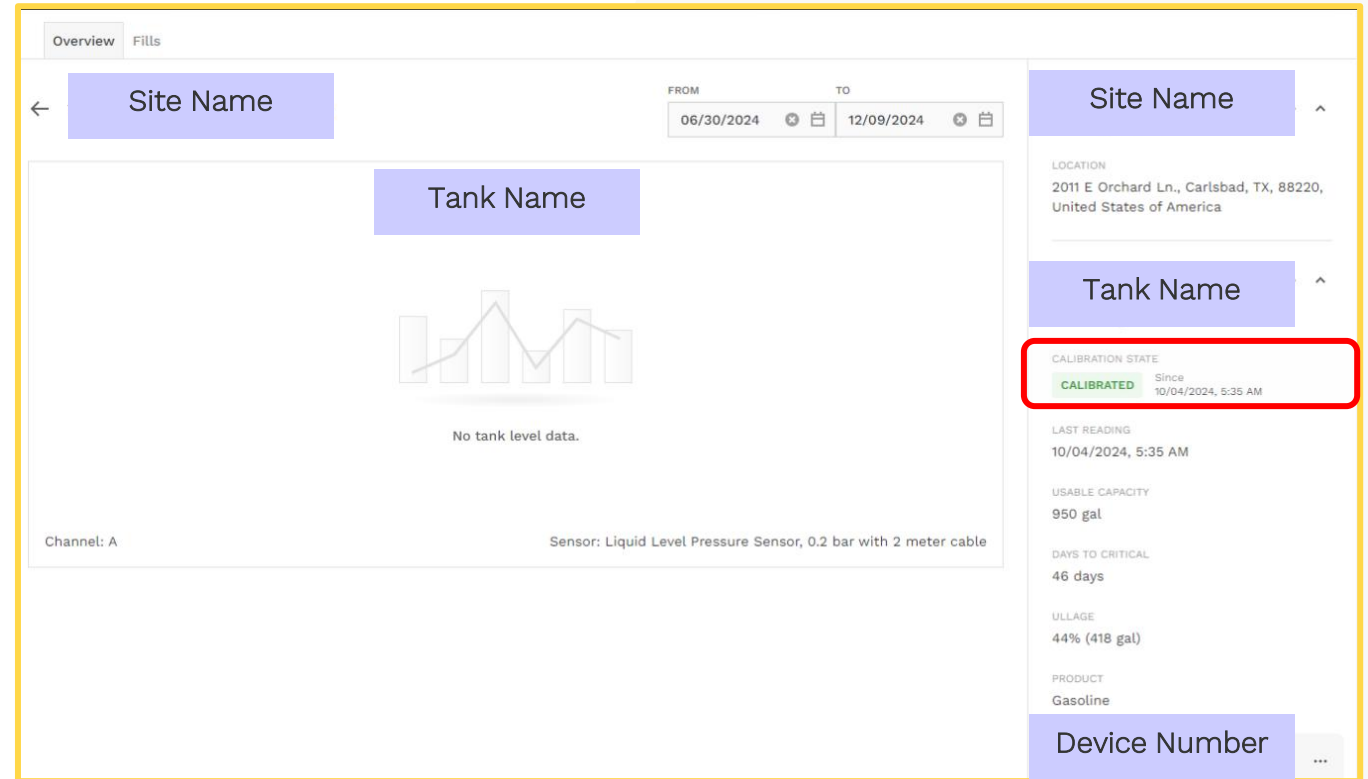
- Product
- Specific Gravity
- Tank Shape
- Tank Dimensions
- Sensor and Sensor Gap

As covered in the F & L Introduction - our Sensor reads the difference between Product pressure and atmospheric pressure to determine the Height of the product, we then use the Specific Gravity to convert the height to inches (based on the ins WC method) taking the Gap to bottom into account, then using the tank dimensions we calculate Volume, this is reported back on the Tank View as a % Volume in tank

Calibration State:

There are 3 calibration states:

- Uncalibrated – Device is associated, but the manual calibration Process has not been completed
- Pending – This indicates that the relevant Tank and Device Is captured but either the device has not yet been activated or the reading has not yet come through
- Calibrated – Tank Is calibrated and Volume will be displayed as tank % level and on the graph on both Tank and Device View



MANUAL CALIBRATION

1. For Manual Calibration, select the option “Calibrate manually”.
2. Insert the Stick Reading in inches. The Platform will automatically calculate the volume in Gallons and the Level in Percentage. Or insert the Percentage level, the stick reading and volume will be calculated automatically.
3. On the right-side column, the Preview Area, the Calibration State will change to PENDING.
4. Activate the UTM for the platform to update with the level reading. You will receive a notification alert when a communication is received by Unify and the page will update automatically.

New deployment

- Site
- Tank
- Device
- 4 Calibration

Calibration

Device is linked to tank **New Tank 1** on site **site Demo**. Optionally, you can calibrate it.

21.26 inches. Level thresholds below 13% will not be triggered. It is recommended to replace the physical sensor with an appropriate one for the tank height.

1 **Calibrate manually**

Please activate the device so that it can report tank level readings. Reposition the device and check if it is not covered by metal or any other obstructions.

READING DATE: 05/03/25

READING TIME: 14 : 41 Europe/Lisbon

2

STICK READING	VOLUME	LEVEL
90 in	12036 gal	97 %

Stick reading, volume and level fields are related. By filling one of them the other ones are automatically filled.

3

Calibration state

PENDING

1 Tank will remain pending until a reading is received. Then it will be changed to calibrated.

PREVIOUS PENDING - FINISH

Last reading UPDATED AT 14:42

DATE AND TIME	HEIGHT	VOLUME (GAL)	LEVEL (%)
--	--	--	--

LAST COMMUNICATION: 05/03/25, 14:30

SENSOR STATE: A OK

Every time the device communicates, the last call is updated automatically.

Height (inches) vs Volume (gallons) graph showing a curve.

MANUAL CALIBRATION (CONTINUED)

- The page will update automatically when the communication is received. The reading is automatically selected by the Platform. If more than one communication is displayed, select the latest communication with the correct level reading.
- On the right-side column, the LAST READING section will update also.
- On the bottom-right corner, the Calibration State will change to CALIBRATED.
- Click on the bottom-right button CALIBRATED-FINISH to complete the New Deployment process.

The screenshot shows a 'New deployment' sidebar on the left with 'Calibration' selected. The main area is titled 'Calibration' and contains several sections:

- READING TIME:** 14:41 Europe/Lisbon
- STICK READING:** 72.2 in
- VOLUME:** 9983 gal
- LEVEL:** 80 %
- SELECT DEVICE READING TO CALIBRATE:** A table with one row selected (radio button):

DATE AND TIME	EST. HEIGHT (IN)	EST. VOLUME (GAL)
05/03/25, 14:46	79.03 in	10919 gal
- Graph:** A line graph showing Height (inches) vs Volume (gallons) with a yellow curve.
- Last reading:** A table with columns: DATE AND TIME (05/03/25, 14:46), HEIGHT (79.03 in), VOLUME (GAL) (10919 gal), LEVEL (%) (88%).
- Calibration state:** A green button labeled 'CALIBRATED'.
- Bottom right:** A 'PREVIOUS' button and a 'CALIBRATED - FINISH' button.

Numbered callouts point to: 5 (table), 6 (graph), 7 (CALIBRATED button), and 8 (CALIBRATED - FINISH button).

REPORTING



REPORTING FIELDS

2 Additional reporting fields have been created to easily identify tanks Calibration Status and Date, both are available under the Tank section of Report creation

Product Group also allows the User to view tanks or devices that have been created under either the LPG or Fuels and Lubricants Product Groups

☰ Calibration State	Tank
☰ Calibration Date	Tank

PRODUCT GROUP	CALIBRATION STATE	CALIBRATION DATE
Fuels and Lubricants	CALIBRATED	10/04/2024, 6:59 AM
Fuels and Lubricants	CALIBRATED	10/04/2024, 6:42 AM
Fuels and Lubricants	CALIBRATED	10/04/2024, 5:35 AM
Fuels and Lubricants	CALIBRATED	10/03/2024, 9:40 AM
Fuels and Lubricants	CALIBRATED	09/27/2024, 10:03 AM
Fuels and Lubricants	CALIBRATED	09/26/2024, 2:04 PM

THANK YOU

support@anova.com

ANOVA

