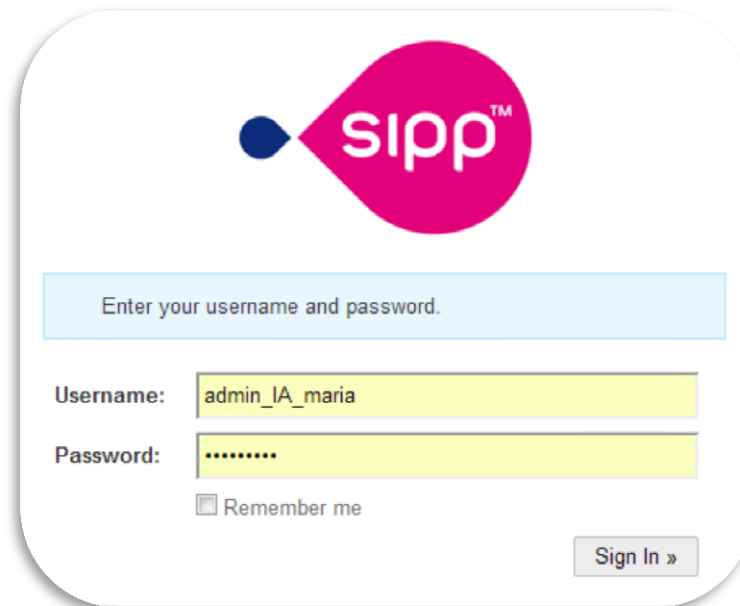


SIPP Warehouse 2.0 - web interface for SIPP products

SIPP Warehouse 2.0 is the web interface for Industriarmatur's SIPP products. This document describes how this web interface is structured.

A screenshot of the SIPP Warehouse 2.0 login interface. At the top center is the SIPP logo, which consists of a blue dot and a pink teardrop shape containing the word "sipp" in white lowercase letters with a trademark symbol. Below the logo is a light blue rectangular box containing the text "Enter your username and password." Underneath this box are two input fields: "Username:" with the text "admin_IA_maria" and "Password:" with a series of dots. Below the password field is a checkbox labeled "Remember me". At the bottom right of the form is a button labeled "Sign In »".

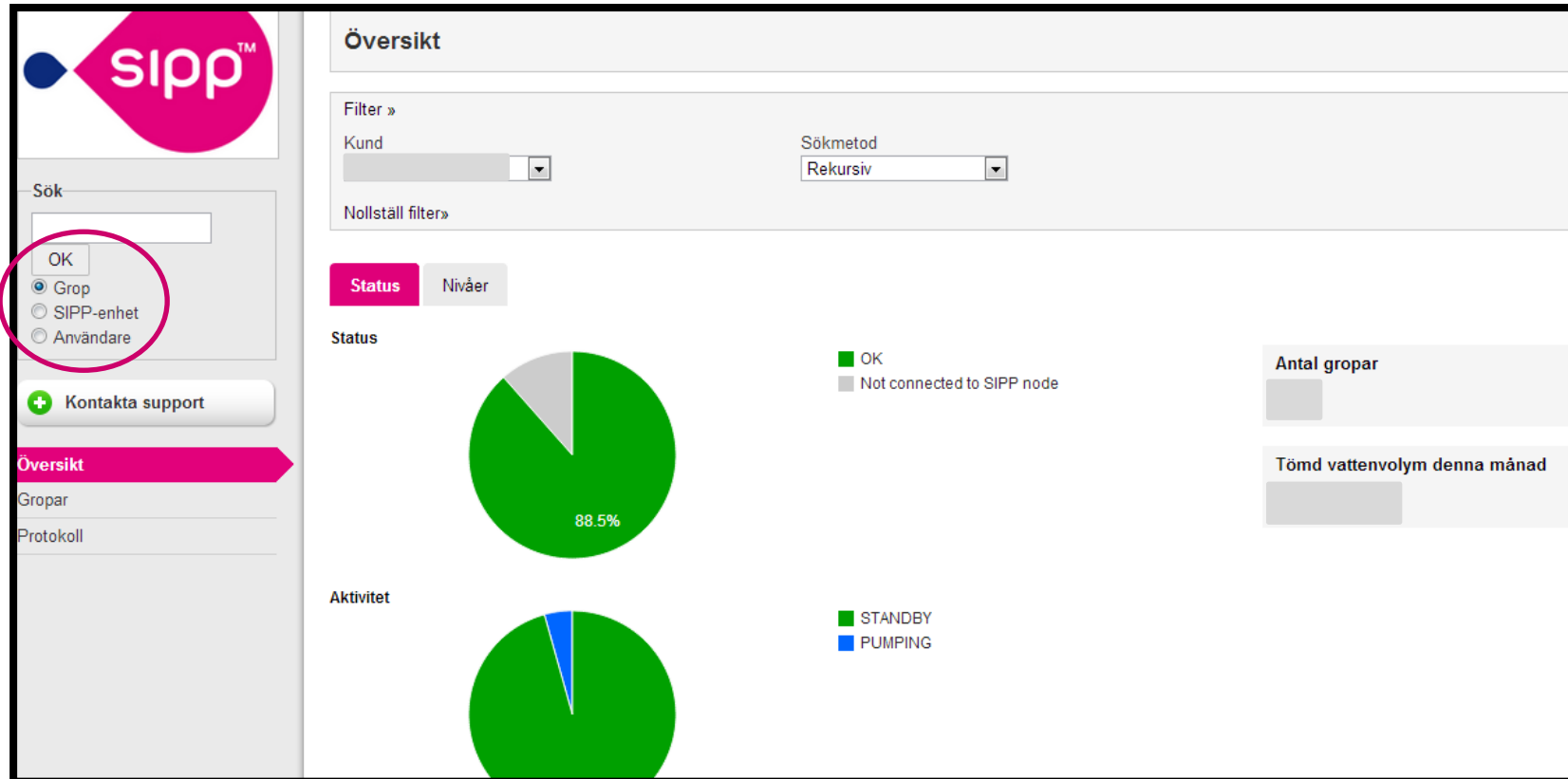
The address to the web interface is:

<http://swh.apps.iowa.se> or <http://www.industriarmatur.se/> (Click on "SIPP Warehouse login")

Every customer receives a personal login for their connected products and can choose to obtain the interface in Swedish or English. For questions regarding login, contact us at support@industriarmatur.se or +46 (0) 31-80 95 50 and we will be happy to assist you.

Below is a broad overview of the various functions and views in the interface. If you have questions or comments/suggestions please contact us!

General structure of views

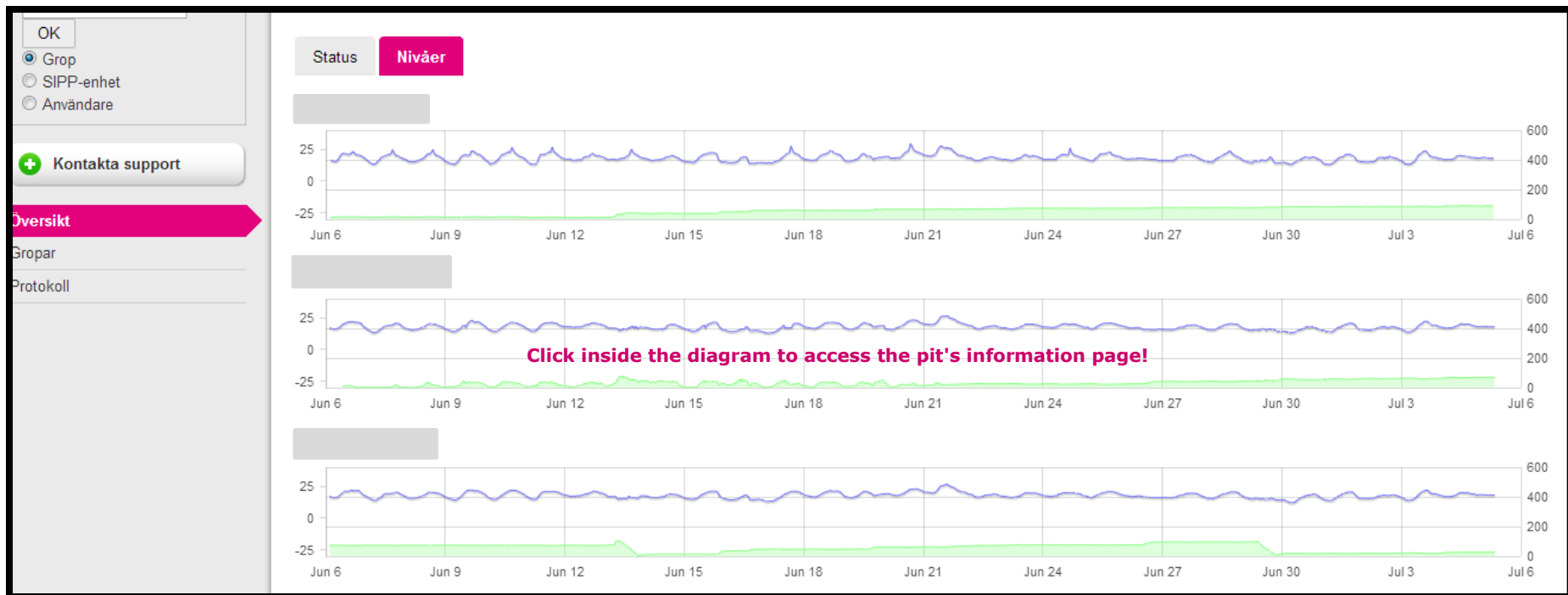


At the left, you will always find a fixed view for all views. There is also a search function – don't forget to select what type of information you are searching for. Here, you will also find a direct link where you can contact our support department via email, as well as the three basic views in the web interface: **overview**, **pits** and **protocol**, where the selected view is marked. The views are described in more detail below.

At the top of the view there is always a heading, and if it is possible to filter the information that is shown always directly below the heading. Filtering can be done with both the help of a roll-down list or as free text. For free text searches, it works very well to search using parts of, for example, a pit name.

Overview

The goal here is to obtain a quick overview of the status of the pits. You can choose to see the status for the pits visualised through two pie charts (the tab, *Status* – see the image above) or by viewing a list on the miniature diagram for the respective pit (tab *Levels* – see the image below).






By clicking on the respective miniature diagram (see above) you can access each respective pit's information page – see more under **Info** below. At the top there is a filter so you can filter the information if you, as a customer, have grouped your facilities.

Pits

To see all pits in the current folder – click on "Pits" in the list to the left.

The name of the pit, the name of the owner of the unit, the water level, the unit's status and a magnifying glass that can be clicked on to access the information page for the pit in question are shown from left to right.

Station	Kund	Nivå	Enhetsstatus	
Torslanda K17 T2		274	STANDBY	
Repeshäll K6 T101		182	STANDBY	
Repeshäll K6 102		247	STANDBY	

The water level for the pits is shown in mm. **GREEN** bar = OK, **YELLOW** bar = WARNING, **RED** bar = ALARM.

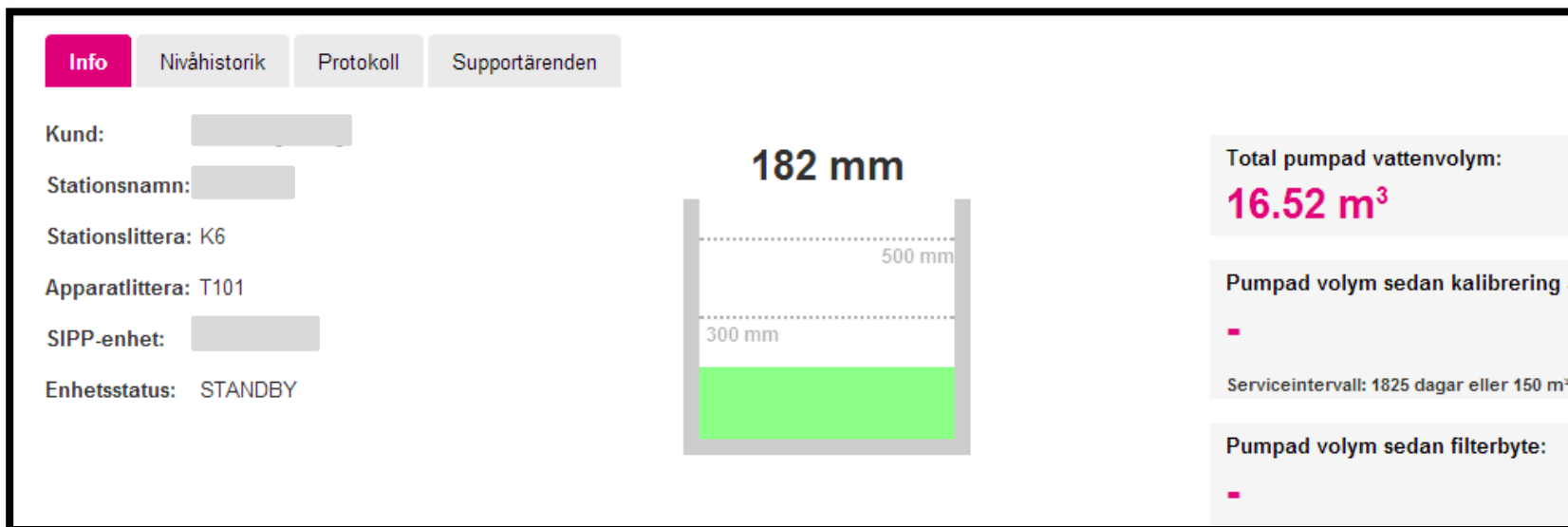
As a basic setting, the level is red if the level exceeds the water level that allows the volume of oil for the transformer to have exactly enough space in the pit trap, and is yellow when the margin is 20%. Observe that the settings depend on the stated measures of the pit trap and the volume of oil in the transformer. When information is lacking about the pit's dimensions and oil volume, two general levels for warnings and alarms are set, which are not associated with an actual warning level.

At the far right the status of the units is shown. They can have the following three values:

- **STANDBY** = Water level is below the start level, the unit is in standby mode
- **PUMPING** = The water level has risen above the start level, the unit is pumping
- **HIBERNATED** = The unit is waiting to start pumping due to a temperature level that is too high or too low. In the event of a temperature that is too low, the temperature must be higher than 0°C degrees for at least 72 hours in order for the unit to be reset to active mode. For high temperatures, the units return to active mode as soon as the temperature drops below 35°C.

To get more information about the pits, click on the magnifying glass or pit name.

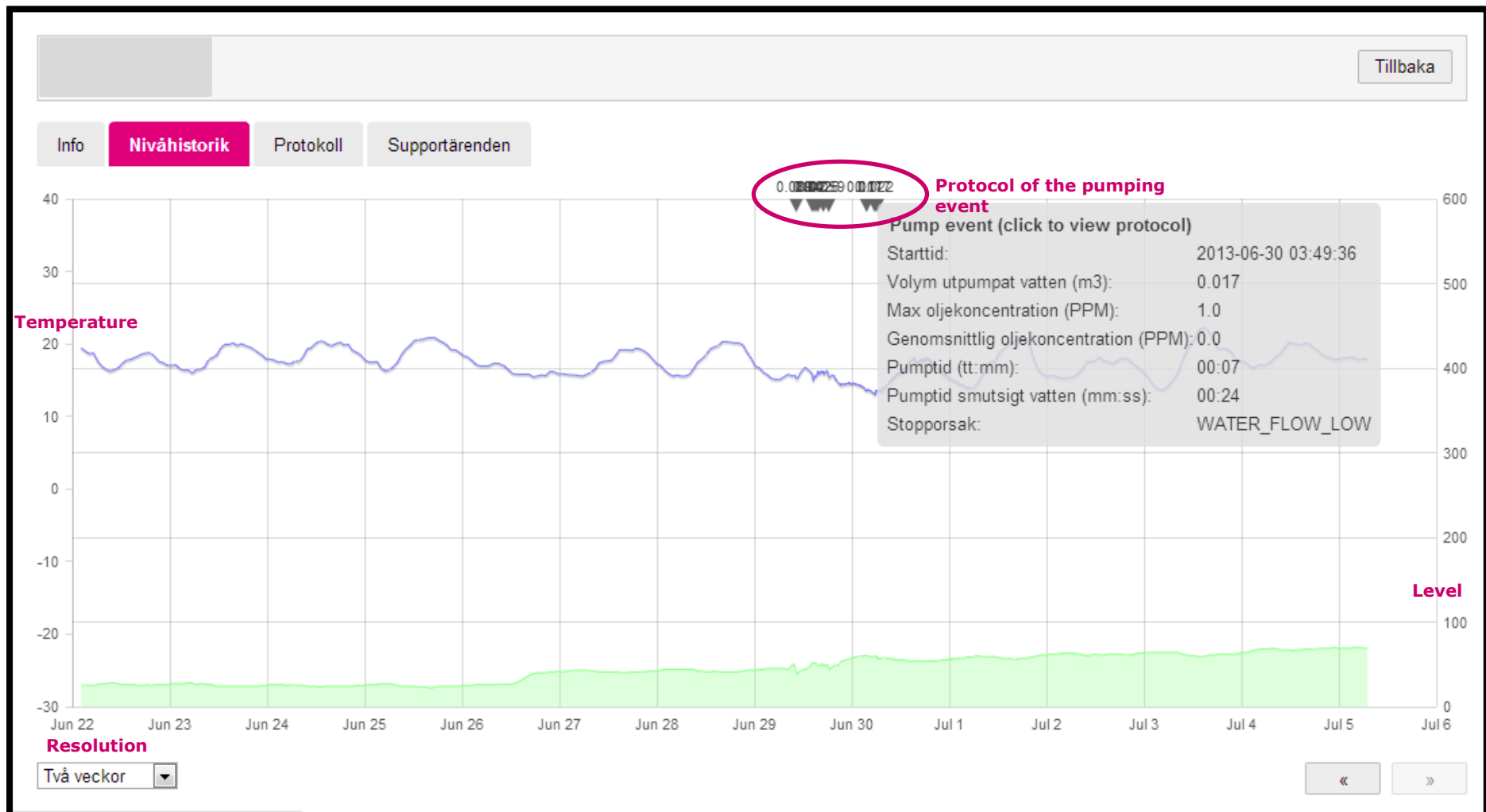
Under the tab, **Info**, there is information about the pit's name, customer, what serial number the unit installed by the pit has, the status of the unit, the level in the pit as well as the warning and alarm level, respectively. Here, you can also find information about the total water volume that has been pumped out since installation and since filter and measurement cell replacement. Note that the service interval for the filter change is 50 m³ or 1 year, and for the measurement cell, 150 m³ or 5 years. Industriarmatur will inform you when 80% of the filter or measurement cell is depleted in order to plan a service visit.











The screenshot shows the 'Info' tab selected in a customer interface. It contains the following information:

- Navigation tabs:** Info (selected), Nivåhistorik, Protokoll, Supportärenden
- Customer information:** Kund: [redacted], Stationsnamn: [redacted], Stationslittera: K6, Apparatlittera: T101, SIPP-enhet: [redacted], Enhetsstatus: STANDBY
- Water level gauge:** A vertical gauge showing a water level of 182 mm. The gauge has two horizontal dashed lines at 300 mm and 500 mm. The water level is represented by a green bar at the bottom of the gauge.
- Statistics:**
 - Total pumpad vattenvolym: **16.52 m³**
 - Pumpad volym sedan kalibrering a: -
 - Serviceintervall: 1825 dagar eller 150 m³
 - Pumpad volym sedan filterbyte: -



Under the tab, **Level history**, there is a graph of the pit's level (shown in the same colour as the level status) and temperature (shown in blue). Data is stored from the installation date, and in the lower left hand corner it is possible to select the resolution, and in the right hand corner you can select the window. To the right in the graph, the level of the unit is shown in mm, and to the left you can see the temperature in the unit in °C. At the top of the graph there may be small black arrows. These indicate that a pumping event has been carried out. By moving the mouse cursor over the arrow, a small window opens with information about the pumping event. See the chapter regarding protocol for more information and an explanation for the information that is shown here.



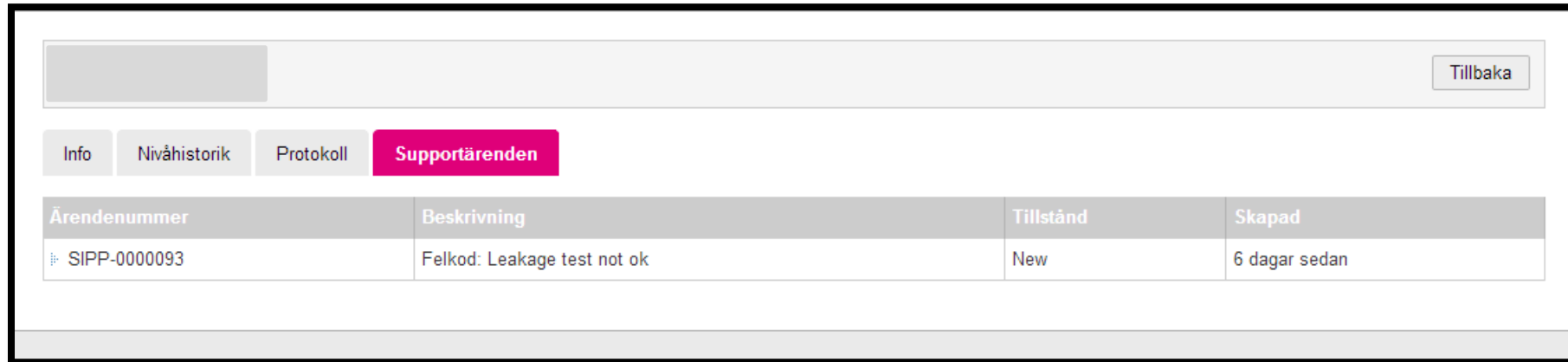
Under the tab, **Protocol**, you will find all protocols for the pit listed.

Info	Nivåhistorik	Protokoll	Supportärenden
Filnamn	Skapad		
2013-06-30 06:20:56.pdf	5 dagar sedan		
2013-06-30 05:46:54.pdf	5 dagar sedan		
2013-06-30 03:49:36.pdf	5 dagar sedan		
2013-06-29 18:00:20.pdf	6 dagar sedan		
2013-06-29 16:59:02.pdf	6 dagar sedan		
2013-06-29 15:44:32.pdf	6 dagar sedan		 Visa
2013-06-29 14:56:56.pdf	6 dagar sedan		
2013-06-29 14:12:09.pdf	6 dagar sedan		

Click on the magnifying glass to see the protocols in their entirety. In the upper left it is possible to export in PDF format. To exit the view and return to the list with the protocols, click on the small X in the upper right hand corner.

Info	Nivåhistorik	Protokoll	Supportärenden
 To export as PDF.			 To exit the view.
Information			
Ägare:	Kommun:	Område:	
	-	-	
Stationslittera:	Stationsnamn:	Apparatlittera:	
K9	Backa	T1	

Under the tab, **Support cases**, there are active service cases that Industriarmatur has created for the facility. When the service case is no longer current it is deleted from the list.

A screenshot of a web application interface for support cases. At the top right is a "Tillbaka" button. Below it are four tabs: "Info", "Nivåhistorik", "Protokoll", and "Supportärenden" (which is highlighted in pink). Below the tabs is a table with four columns: "Ärendenummer", "Beskrivning", "Tillstånd", and "Skapad". The table contains one row with the following data: "SIPP-0000093", "Felkod: Leakage test not ok", "New", and "6 dagar sedan".

Ärendenummer	Beskrivning	Tillstånd	Skapad
SIPP-0000093	Felkod: Leakage test not ok	New	6 dagar sedan

Protocol

Here, you will find all protocols for the folder in question. By clicking on the magnifying glass you can access the actual protocols. The same information is shown as when you go in via a specific pit. Below are several explanations of concepts in the protocols that may be good to be familiar with:

Parameter	Explanation
Average oil concentration	Average oil concentration in ppm for the water that is pumped out from the pit.
Maximum oil concentration	Maximum detected oil concentration in ppm during pumping. This value also includes water that has been pumped in return as a result of too high oil content.
Volume of water pumped out	Water volume in m ³ that has been pumped out of the pit.
Pump time	Total pump time shown in the format hh:mm.
Pump time for waste water	Time when water has been pumped in return, shown in the format mm:ss
Cause for stoppage	Reason that pumping was terminated
<i>The unit can terminate drainage for the following reasons:</i>	
MAX_PUMP_TIME	The unit has pumped for 7 hours and 20 minutes. The pumping is terminated because the pump needs a break. Pumping will resume again in 20 minutes.
OIL_CONTENT_HIGH	The unit measures an oil content exceeding 5 ppm and that is why the pumping is terminated.
PIT_EMPTY	The water level is below the stop level and therefore the pumping is terminated.
UNKNOWN	The unit has stopped pumping for an unknown reason, for example, a power outage.