



# INTRODUCTION

Working in the Marine and Energy industry, you no doubt have to constantly adapt to challenging conditions and new regulations. As a result, monitoring and maintaining your machinery and equipment have become more important today than ever – helping minimise costs and unplanned downtime.

At Castrol, we wanted to help you navigate your way around these challenges, mitigating any risks that might affect the performance of your critical assets. How? With Castrol LabCheck: our new digital solution that optimises used-oil analysis (UOA), sampling, trending and reporting. When used in conjunction with data from your other condition-monitoring techniques, these assessments allow you to understand the condition of your equipment. This allows you to identify developing issues at an earlier stage and plan maintenance activities to improve and maintain reliability and efficiency.

This short guide provides a walk-through of how to get started with Castrol LabCheck. We think you'll find it guite intuitive, but further guidance is available on reguest.

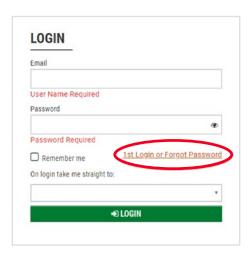


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# LOGGING IN FOR THE FIRST TIME

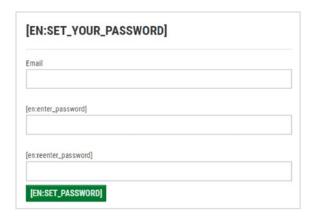
In order to complete your account setup and first-time login, visit the LabCheck site (labcheck.castrol.com) and click on **1st Login or Forgot Password** circled in red below.



You will see the following screen, where you will need to enter your email address and click **Submit**:



You will then receive an email from <a href="mailto:labcheck@castrol.com">labcheck@castrol.com</a> containing a link. Click this link to visit the following page to set up your password:



Your password must include:

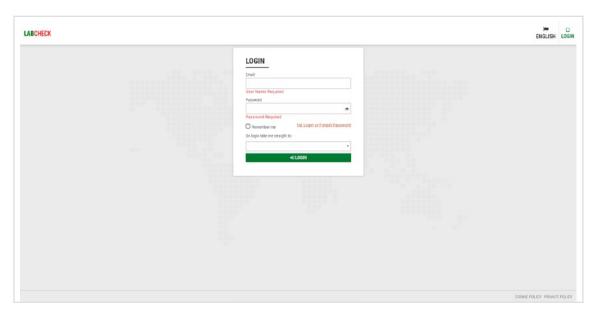
- 16 characters
- At least 1 uppercase and lowercase letter
- 1 number
- 1 special character (.!?# etc.)

#### **LOGGING IN**

Start by simply entering your login details and password. Don't worry if you can't remember them; you can reset your password by clicking **1st Login or Forgot Password**. More details on this can be found in the forgotten password section of the guidance sheet.

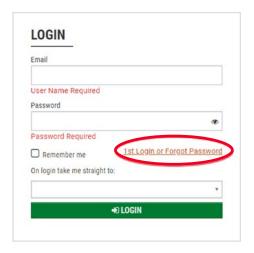
If you want to double-check what you've typed, click on the eye icon, which will reveal your characters.

The language is set to English by default, but you can always change it by clicking on the flag icon in the top-right corner of your browser.



### FORGOTTEN PASSWORD

If you forget your password, you can easily reset it by clicking on **1st Login or Forgot Password** circled in red below.



You will then receive an email from labcheck@castrol.com containing a link. Click this link to visit the following page to reset your password:



#### **WELCOME TO YOUR HOMEPAGE**



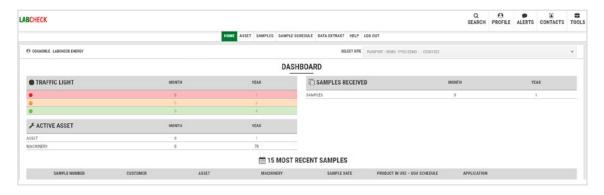
The first thing you'll see is the menu bar, which provides guick and easy ways to:

- Return to your dashboard screen
- View a comprehensive list of your registered equipment
- Access information on your samples
- Head to your scheduling page
- Extract data from the Castrol LabCheck database
- Find help through FAQs and links to other Castrol webpages
- Log out of Castrol LabCheck

#### YOUR DASHBOARD

At the top of your dashboard, you'll see a snapshot of key information, including:

- How many samples in the latest month and current year you have received
- Which samples are rated green, amber or red
- A total of your active equipment and sample points



Scroll down and you'll reveal more information on the last 15 samples submitted, which are colour-coded to highlight their diagnosis status.

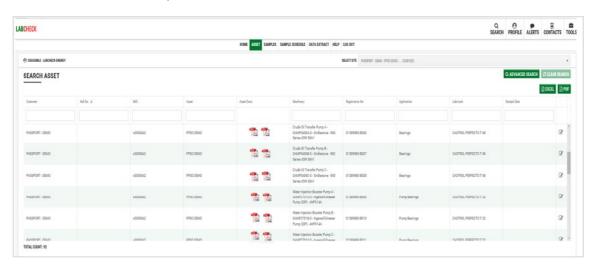


# **VESSEL/ASSET**

When selecting **Vessel** or **Asset** within the navigation menu you'll find a list of all your equipment registered to your vessels/assets.

The boxes at the top of each column allow you to search for specific equipment quickly and easily. You can also click on the **Advanced Search** button to display more vessels/ assets registered to your profile.

The fifth column – Asset Docs – will show whether a PDF of the asset's UOA and/or Lubrication schedule is available in the portal. Click on a PDF icon to view the document.



At the end of each row, you'll see an icon that resembles a piece of paper and a pen: 
Click on this to edit information about your equipment. Any changes you make will be sent to the Castrol Technical team to validate and accept.

Once you're happy with your list of equipment, you have the option to export it in Microsoft Excel or pdf format.

#### **SAMPLES**

This is where a list of all completed submitted samples are stored.

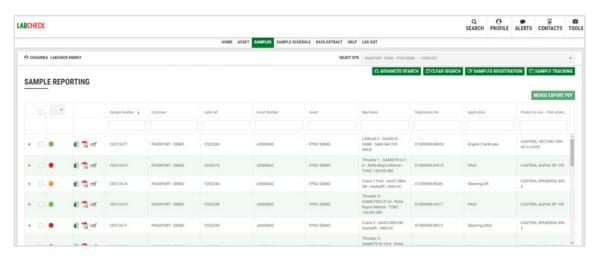
Again, you can use the boxes at the top of each column to search for samples quickly and easily, and the **Advanced Search** button to access a more in-depth list.

Samples are listed with a coloured dot to help you recognise their diagnosis status. You can also register newly taken samples and track any that have been submitted for analysis.

By clicking on the graph icon my you can view online reporting and trends.

You can go to the results page to view your sample.

You also have the option to view your sample reports in either Microsoft Excel or as a pdf document by clicking on the xls or pdf icon. If you select more than one report, you can consolidate them into a single pdf by ticking the box in column one of the sample's row and clicking on the **Merge Export pdf** button.



# **SAMPLE SCHEDULE**

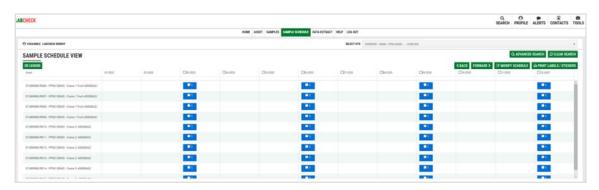
This tab opens a search box to find specific sample locations. Select your asset and the desired time period.

The screen below, which lists all sample points and information about your schedule, will appear when you click **Cancel**.

**Legend** explains what the different-coloured squares indicate, while the numbers inside each square highlight the total amount of samples submitted during that particular calendar month. You can open relevant lab reports by hovering over each number.



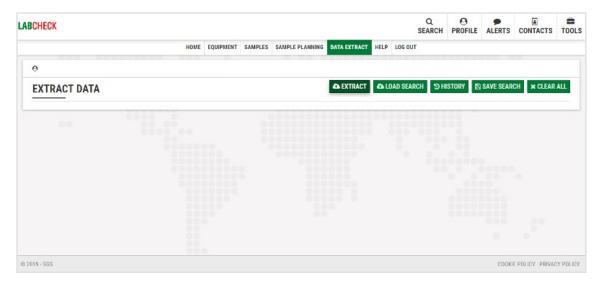
Finally, you can print sample labels or stickers by clicking on the white box(es) allocated to the whole calendar month or specific pieces of equipment. (We'll cover this feature in more detail later on.)



#### **DATA EXTRACT**

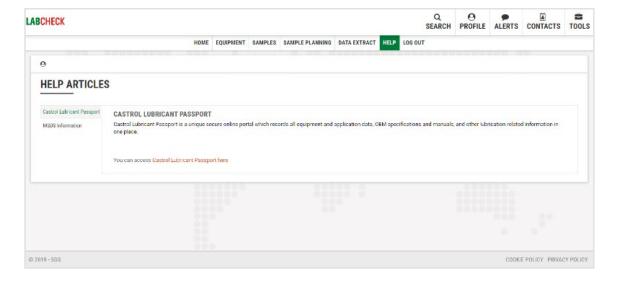
This page is where you can search for and extract data from Castrol LabCheck based on the criteria you specify. You can also save criteria and rerun searches multiple times by using the **Save Search** and **Load Search** buttons.

If you'd like to receive any results, all you need to do is provide your email address. You will then receive an email with a link to your data.

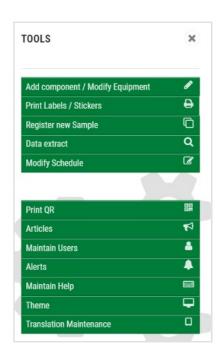


# **HELP**

Here, you can read our FAQs and access other webpages to learn more about Castrol offerings.



#### **TOOLS**



This is your shortcut to all the menu options we've discussed in this guide.

You can access any of them by clicking on the **Tools** icon. This opens a window where you can select your chosen feature (such as printing labels and stickers or registering a new sample).

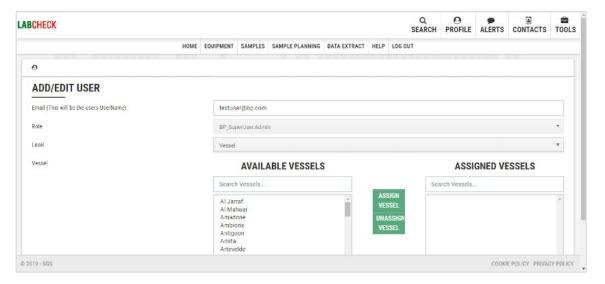
#### **MAINTAINING USERS**

From the Tool window, select **Maintain Users** from the list of features. This enables you to add new and edit existing users.

To edit or delete an existing user, simply click on the icon that resembles a piece of paper and a pen or the bin



To create a user, select **Add User**, enter the correct email address, select the appropriate level of access and click **Create User**.



# **LABCHECK INSIGHT**

LabCheck Insight is our new feature for reports and trends. Available within the LabCheck portal, it is where we really harness the benefits of having OEM data:

- Castrol's hierarchy of limits
- Our deep knowledge and experience of Condition Monitoring (CM)
- UOA
- Maintenance
- Operations and lubrication strategies to record, show and assess lubricant condition trends
- Insights into machine/system condition (by comparing this data with that obtained by the end user from other CM techniques)

#### **RESULTS PAGE**

As mentioned earlier, clicking on the 🍏 icon in SAMPLES takes you through to Labcheck Insight.



There are distinct sections on this page. We'll explain each in detail.

# **EQUIPMENT DETAILS AND SAMPLE DETAILS**

As in the pdf reports, at the top of this page you have the Equipment Details, Sample Details and Sample Comment.



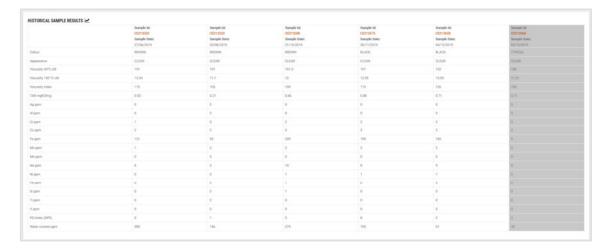
#### **SAMPLE RESULTS**

Below this, we have the first feature of LabCheck Insight: individual tiles for the result of each test parameter that is being reported; the value; and where that result sits in the limits that we have set on our system. Each tile will show the limit zones (RED/AMBER/GREEN) and will differ according to which parameter is tested.

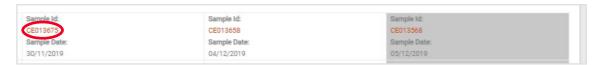


# SAMPLE HISTORICAL RESULTS

The final section on this page shows the historical sample result data for the current sample and the five previous sample reports. Unlike in the pdf, the latest results are displayed on the right and the oldest, on the left.



The Sample ID shown above the sample date and sample data is also a hyperlink.



By clicking on any of the previous sample hyperlinks, the view will change. The sample selected will become highlighted and move to the right of the screen, the preceding five samples will be shown and the result/limit tiles above will change to reflect the selected sample.

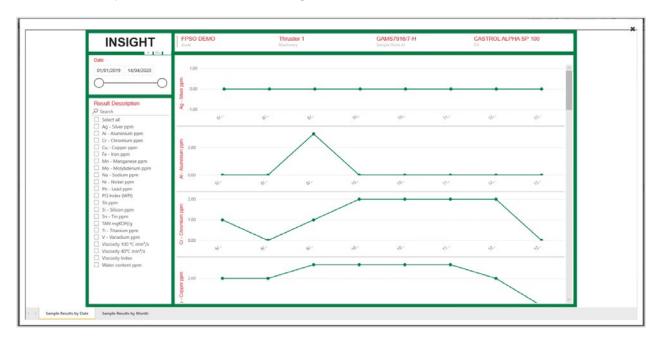


# LABCHECK INSIGHT FOR TRENDS

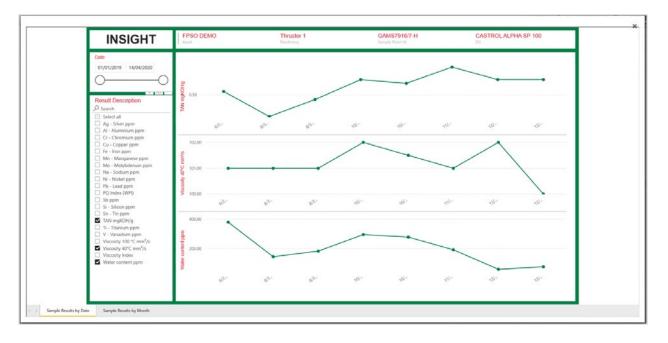
Click on the **!** icon which is located in two places (see below) on the sample reporting page to go to the trending package of LabCheck Insight.



The default view of the LabCheck Insight trending package is to show trends for all of the test parameters over a small date range.



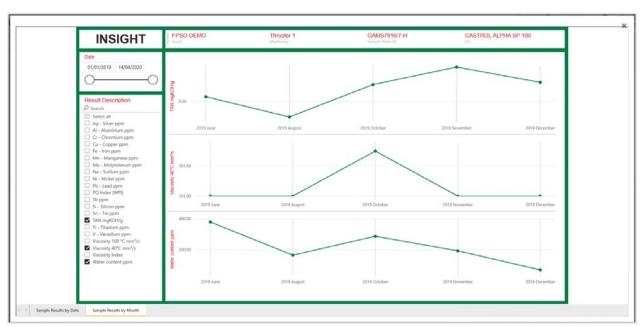
Each of the parameters is displayed vertically. To see the trend for single parameters or a combination, you just select them in the check boxes. Adjust the date range by moving the date sliders. In this illustration, we have selected V40, Water Content and TAN:



Moving the cursor over each data point on the trend shows the date and the result.

The x-axis default is to show results by date, to give greater clarity on any gap between samples (which is useful for identifying when samples have potentially been missed or repeat samples are sent in). By selecting the Sample Results by Month tab at the bottom left of the page, the view changes to each sample being spaced the same.

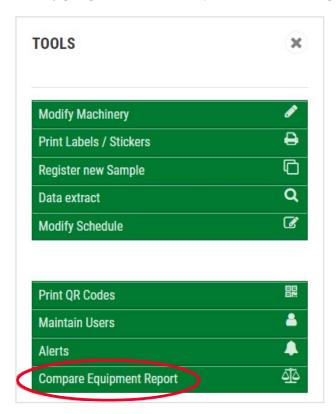




# LABCHECK INSIGHT EQUIPMENT COMPARISON TRENDING

The OEM and model data that Castrol holds for each sample point allows us to provide comparison trending for the same models across an asset/vessel or for a customer fleet across all of their assets/vessels.

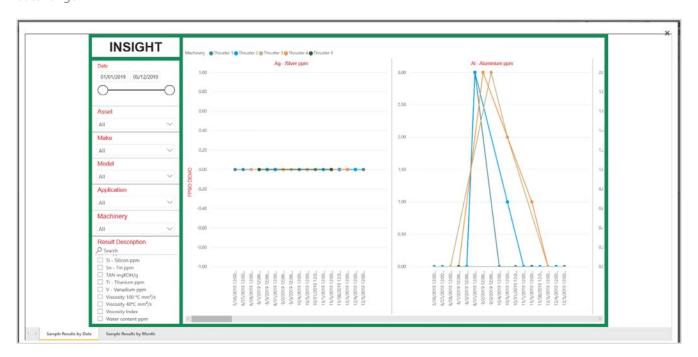
Start by going to **Tools** on the top toolbar and selecting **Compare Equipment Report**.



On the screen that is then displayed, select the OEM and model you are looking to compare. Simply typing part of an OEM will display options to select. Alternatively, use the dropdown menu (and if you know the model, complete that too). Then select **Apply**.



You will then see, by default, all of the test parameter trends horizontally for your asset/vessel. Each individual unit will have a trend in the same graph. If you have access to multiple assets/vessels that have this OEM/model, they will be displayed vertically. If no trends appear initially, widen the date range.



Again, select the test parameter you want to see overall trends for from the check boxes. The individual trends will be displayed colour-coded as per the key at the top of the graph.



If, as before in single sample point trending with LabCheck Insight, you want to compare multiple parameters, select another parameter. Its trends will appear on a graph adjacent to the original parameter's graph.



