

# **CRSL World Fleet Register Manual**

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#### 1.1 Introduction

The World Fleet Register is an online data service, comprising details of all merchant vessels over 100 GT. It covers more than 80,000 vessels in service, on order, under conversion or recently removed from the fleet, any of which may be selected by a wide range of criteria.

The World Fleet Register provides users with the ability to (i) access timely, up-to-date fleet data (ii) show trends in key data over time (iii) provide perspective and context across ships and sectors (iv) undertake drill down analysis with quick and user-friendly access to comprehensive fleet data as required. After validation, the data available on World Fleet Register is updated daily, with changes progressively uploaded to the database between 9am and 10am (UK time).

#### 1.2 Logging In

To log in to World Fleet Register, visit the website <u>http://www.clarksons.net/wfr</u>. The first screen that the user will see upon visiting the site is the log-in screen. To log in users can enter their individual username and password into the appropriate boxes and click on the 'Login' button. The log-in screen also provides links to enable users to recover their password and view the standard terms and conditions of use.

#### 1.3 Home Page

The home page provides a quick introduction to the site including access to the more than 80,000 vessels in the fleet database, the wide range of time-series available and the publications included. It introduces the fully-flexible nature of the site, which allows the user to extract the data they require as specifically or broadly as they wish (see Appendix 1, Screen Shot 1).

The home page also acts as a site-map, providing 'Quick Links' to a range of useful areas. Users can return to this page whenever they wish to search for a new data set by simply clicking the 'Home' radio button in the top left corner of each screen at any time.

The World Fleet Register consists of three main sections, which appear on the radio button bar at the top of the home page: Fleet Register, Timeseries and Publications.

#### 1.4 Fleet Register

At the top of the Fleet Register screen, above the 'Data Grid', can be seen (from left to right) the various 'Status' options (Fleet, Orderbook, Under Conversion, Demolitions/Removals), the Reset button, the 'Quick Search' function and the options to produce quick age profiles of a selected fleet, download into Excel and the 'Analysis' options (including the ability to save a 'Report').

Below this on the screen, can be seen a selection of areas (again from left to right), firstly the 'Databases' area. Users can switch between the 'Daily' and 'Monthly' options to view either the most up-to-date data, or data as of the first day of the most recent month. The 'Databases' area also lists the 12 available databases.

To the right of the 'Databases' area is the 'Ship Type' area, which indicates the segmentation of the vessels (there are 19 Ship Type selections available, which are subdivided into standard types and sizes by the use of the drop down boxes in the Ship Type area), and further to the right are areas highlighting the various search filters and data display options (e.g. Vessel Characteristics, Regulatory Status).

The content of the 'Data Grid' is controlled by the radio buttons and check-boxes across this area allowing the user to select the specific data required from each group. The 'Databases' and 'Ship Types' areas allow just one selection, whilst the Vessel Characteristics, Regulatory Status, and Shipbuilders areas, for example, allow multiple selections.

1.4.1 Working With Vessel Data

#### 1.4.1.1 Searching For a Vessel

Users can use the World Fleet Register to search for vessels by a wide a wide range of criteria. The World Fleet Register includes a 'Quick Search' function as well as more comprehensive vessel search functionality.

#### 1.4.1.1.1 Using Quick Search – Searching For a Vessel by Name or IMO number

Users can search for a vessel by name or IMO number using the vessel 'Quick Search' function. In order to search the user must enter the search term in the 'Quick Search' box and click 'Search' (see Appendix 1, Screen Shot 2). Checking the 'Inc. Exname' box widens a name search to include recorded vessel exnames. Clicking the 'X' button clears the 'Search' box. For each new search the user must first click on the 'Reset' button.

#### 1.4.1.1.2 Searching For a Vessel by Flag

Users can search for vessels by flag by following the steps below:

- i. Click on 'Flag State' in the Regulatory, Ownership area.
- ii. The 'Flag State Criteria' pop-up box will appear click on the selected flag states to use as search criteria or multiple entities using Shift/CTRL or click on any pre-selected groups shown e.g. OECD (see Appendix 1, Screen Shot 3)
- iii. Click on the 'Show in Custom Data Grid' box to display the 'Flag State' field in the data grid
- iv. Click 'OK'
- v. The data grid will now show the vessels corresponding to the selected flag state

#### 1.4.1.1.3 Searching For a Vessel by Ship Type

Users can search for vessels by ship type by using the options in the Ship Types area as detailed below:

- i. Clicking on a Ship Type (e.g. 'Oil Tankers') in the 'Ship Types' area (see Appendix 1, Screen Shot 4)
- ii. Select a ship sub-type(e.g. 'VLCC') from the first drop-down box in the Ship Type area
- iii. Select a 'special type' (e.g. 'Single Hull') from the second drop-down box in the Ship Type area

In each case the selection made by the user will refine the search to return vessels corresponding to ship type selections made by the user.

Users can search for vessels by a wider range of ship types, including more detailed ship types, by following the steps below:

- i. Click on 'Vessel Type' in the Vessel Characteristics area.
- ii. The 'Vessel Type Criteria' pop-up box will appear click on the selected vessel types to use as search criteria or multiple entities using Shift/CTRL

- iii. Click on the 'Show in Custom Data Grid' box to display the 'Vessel Type' field in the data grid
- iv. Click 'OK'
- v. The data grid will now show the vessels corresponding to the selected ship type
- 1.4.1.1.4 Searching For a Vessel by Owner

Users can search for vessels by owner by following the steps below:

- i. Click on 'Owner Company' in the Regulatory, Ownership area.
- ii. The 'Owner Company Criteria' pop-up box will appear click on the selected owners to use as search criteria or multiple entities using Shift/CTRL (see Appendix 1, Screen Shot 5)

iii. Click on the 'Show in Custom Data Grid' box to display the 'Owner Company' field in the data grid iv. Click 'OK'

v. The data grid will now show the vessels corresponding to the selected owner company

Users can search for vessels by 'Group Owner' company by using the filter options on the 'Group Owner' field in the Regulatory, Ownership area available by adding the 'Group Owner' field (see section 1.4.1.4 for details on Adding Fields to Vessel Analysis).

#### 1.4.1.1.5 Searching For a Vessel by Other Characteristics

Users can search for vessels by a wide range of other characteristics by using the filter options on the range of criteria available in the Vessel Characteristics, ship type specific vessel characteristics (where shown), Regulatory, Ownership and Shipbuilders areas as described in sections 1.4.1.3 and 1.4.1.4.

#### 1.4.1.1.6 Searching For a Vessel by a Combination of Characteristics

Users can search for vessels across a combination of characteristics at any time. Having searched by one characteristic, the user can automatically move onto searching by another characteristic and the first selection will remain 'held'. In the case of individual fields in the Vessel Characteristics, ship type specific vessel characteristics (where shown), Regulatory, Ownership and Shipbuilders areas this is indicated by the 'filter icon' which appears when a selection is 'held'. Once a user has completed work with a particular dataset, it is possible to reset the data set using the 'Reset' button at the top of the Fleet Register screen (see section 1.4.13).

#### 1.4.1.2 Creating Vessel Lists

The selection of vessels shown in the data grid can be refined as follows (see Appendix 1, Screen Shot 6):

- i. Clicking on the relevant boxes in the 'Status' option bar (top of page) displays Fleet, Orderbook, Under Conversion, Demolitions/Removals data or any required combination thereof
- ii. Clicking on a Ship Type (e.g. 'Oil Tankers') in the 'Ship Types' area
- iii. Select a ship sub-type(e.g. 'VLCC') from the first drop-down box in the Ship Type area
- iv. Select a 'special type' (e.g. 'Single Hull') from the second drop-down box in the Ship Type area

Following the creation of a Vessel List the following actions can be performed:

- i. Click on a vessel in the list to display the vessel's specifications and details (see Appendix 1, Screen Shot 7).
- ii. Export the list to spreadsheet by clicking on the Excel button in the top right of the screen (this function can be used when viewing any fleet information). Users can export up to 2,500 records per

download.

- iii. Save the listing and its selection criteria by clicking 'Save the Current Grid Selection as a Report' option in the 'Options' area in the top right of the screen; the query has then been saved and the user can return to the query at any point in time
- 1.4.1.3 Filtering and Refining Vessel Lists

Vessel Listings can be further refined by using the filter options on the range of criteria available in the Vessel Characteristics, ship type specific vessel characteristics (where shown), Regulatory, Ownership and Shipbuilders areas (see Appendix 1, Screen Shot 8).

- i. Click on a field displayed in Vessel Characteristics
- ii. A criteria pop-up box will appear enter the proposed minimum value in the 'lowest' field, and the proposed maximum value in the 'highest' field.
- iii. Click on the 'Use Criteria to Filter Data' box to filter the listing by the selected criteria range.
- iv. Click on the 'Show in Custom Data Grid' box to display the criteria field in the data grid
- v. Where a field is non-numeric (e.g. 'Flag State', 'Builder') click on the selected entity to use as criteria or multiple entities using Shift/CTRL or click on any pre-selected entity groups shown (e.g. OECD); click on 'Show in Custom Data Grid' box to display the criteria field in the data grid
- vi. Click 'OK'
- vii. The data grid will now show the vessels for which the value for the filtered field lies between the proposed minimum and maximum values (inclusive) and the filtered field itself depending on the option selected in actions 3 and 4 above.

It should be noted that in the 'Regulatory, Ownership' area the field 'Owner Nationality' relates to the 'real' (rather than country of domicile/office location) nationality of the vessel owner company and that in the 'Shipbuilders' area the field 'Builder Country' relates to the physical location of the shipbuilder.

Users can filter for vessels across a combination of characteristics at any time. Having filtered by one characteristic, the user can automatically move onto filtering by another characteristic and the first selection will remain 'held'. In the case of individual fields in the Vessel Characteristics, ship type specific vessel characteristics (where shown), Regulatory, Ownership and Shipbuilders areas this is indicated by the 'filter icon' which appears when a selection is 'held'. Once a user has completed work with a particular dataset, it is possible to reset the data set automatically using the 'Reset' button at the top of the Fleet Register screen (see section 1.4.13).

1.4.1.4 Adding Fields To Vessel Analysis

Vessel listings can also display and/or be filtered by a wide range of other fields not listed by default in the vessel characteristics, ship type specific vessel characteristics, regulatory/ownership and shipbuilders areas. These can be accessed by clicking on the 'More...' button in each of the areas (see Appendix 1, Screen Shot 9).

Clicking on the 'More...' button brings up the 'Choose Columns' box, which shows the current possible additional fields for the area in question (listed in the column labeled 'Available Fields') and the fields currently being shown by World Fleet Register (listed under 'Used Fields').

- i. There is a third column named 'Groups', which is found on the left-hand side of this box. Selecting a group will bring up a different list of fields in the 'Available Fields' list which relate to the heading of the group in question (e.g. selecting the 'Cargo Capacity and Handling' group brings up only fields related to vessels' cargo capacity and handling).
- ii. Adding a field into the 'Used Fields' column will result in it being shown in the area in question on the Fleet Register screen. To do this, click on the field to include from the 'Available Fields' list and

click on the 'Add >>' button, which is located between the 'Available Fields' and 'Used Fields' boxes. Then click the 'OK and Save' button located at the bottom of the box.

It is also possible to remove fields from the areas on the Fleet Register screen. To do this, click on the field to remove the 'Used Fields' column, then click on the '<<Remove' button, which is located between the 'Available Fields' and 'Used Fields' columns and then click the 'OK and Save' button at the bottom of the box.

A full list of all possible additional fields can be found by clicking on the 'More...' button at the bottom of the 'Vessel Characteristics' area. This will bring up the 'Choose Columns' box. In the left hand column, labeled 'Groups', click on the 'Alphabetical Order' heading, which is located at the bottom of the column. This lists all the available fields for all of the areas (Vessel Characteristics, ship type specific vessel characteristics, Regulatory/Ownership, Shipbuilders). To then add fields to the areas on the Fleet Register screen, follow the instructions detailed above.

1.4.1.5 Creating Size/Age and Year of Build Profiles

Click the 'Open Analysis Menu' button in the top-right corner of the home screen will present a pop-up box displaying the analysis menu. This option is only available when working in the Vessels database.

The functions within the analysis menu allow the user to analyse the current selection of vessels and to display a variety of summary and fleet profile tables including 'Size and Age Tables' and 'Fleet Profiles by Year of Build'. Simply click on the required analysis to be performed on the current grid selection. More detail on use of the 'Analysis Menu' is provided in 1.4.10.

#### 1.4.2 Sorting Listings

The listing displayed in the data grid can also be sorted by any of the fields displayed. To do so, users can click on the heading of the relevant field. This will sort the date by ascending alphabetical or numerical order. In order to sort the data by descending order, users can click on the heading of the relevant field twice rather than once.

#### 1.4.3 Owners

#### 1.4.3.1 Creating an Owners Listing

In order to re-set the data grid to the full set of available data click on the 'Reset' button (see section 1.4.13 for further details). Then click on the Owners radio button in the 'Databases' area areas (see Appendix 1, Screen Shot 10).

Click on an owner in the list to display the owner's details, including address, and its fleet and orderbook list.

Owner listings can be refined using the filter and additional field options available in the Vessel Characteristics, ship type specific vessel characteristics (where shown), Regulatory, Ownership and Shipbuilders areas in the same way as vessel listings (see section 1.4.1).

#### 1.4.4 Builders

#### 1.4.4.1 Creating a Builders Listing

In order to re-set the data grid to the full set of available data click on the 'Reset' button (see section 1.4.13 for further details). Then click on the Builders radio button in the 'Databases' area.

Click on a builder in the list to display the builders details, including address, its fleet and orderbook list and technical details about the yard.

Builder listings can be refined using the filter and additional field options available in the Vessel Characteristics, ship type specific vessel characteristics (where shown), Regulatory, Ownership and Shipbuilders areas in the same way as vessel listings (see section 1.4.1).

1.4.5 Class, Flag, Nationality, Owner Groups and Engines Databases

In addition, it is possible to carry out analysis by class, flag, nationality, owner groups and engines. To do this, reset the data grid by clicking on the 'Reset' button (see section 1.4.13 for further details). Then click on the Class Society, Flag State, Nationality, Owner Groups or Engines radio button as appropriate.

As with owners and builders, it is possible to click on the individual owner groups to find out more information about them. Clicking on the name of an owner group displays its address, its fleet and orderbook list and the list of its subsidiary companies.

Class society, flag state, nationality, owner group and engine listings can be refined using the filter and additional field options available in the Vessel Characteristics, ship type specific vessel characteristics (where shown), Regulatory, Ownership and Shipbuilders areas in the same way as vessel listings (see section 1.4.1).

It should be noted that the 'Nationality' database relates to the nationality of the vessel owner as detailed in 1.4.1.

#### 1.4.6 Sales Listings

The Sales section displays reported vessel sales back to 2005, and works in much the same way as the vessel data section, allowing the user to filter various data fields and also which items are displayed.

To access the Sales section click 'S&P' in the Databases section in the top-left of the home page areas (see Appendix 1, Screen Shot 11).

#### 1.4.6.1 Creating a Sales Listing

To create a Sales listing, click on the 'S&P' radio button in the 'Databases' area of the Fleet Register screen. This will bring up a list of sales, and includes useful information about the vessels and the transactions.

Sales listings can be refined using the filter and additional field options available in the Vessel Characteristics, ship type specific vessel characteristics (where shown), Regulatory, Ownership and Shipbuilders areas in the same way as vessel listings (see section 1.4.1).

Both the vessel name and builder can be clicked on this screen when working with a grid of sales data, displaying either the vessel details or the builders' fleet and orderbook.

#### 1.4.7 Piracy Listing

The Piracy section works in much the same way as the vessel data section, allowing the user to filter various data fields and also which items are displayed.

#### 1.4.7.1 Creating a Piracy Listing

To create a Piracy listing, click on the Piracy radio button in the 'Databases' area of the Fleet Register screen. This will bring up a list of the vessels involved in recent piracy incidents, and includes useful information about them and pertinent information referring to the piracy incident.

Piracy listings can be refined using the filter and additional field options available in the Vessel Characteristics, ship type specific vessel characteristics (where shown), Regulatory, Ownership and Shipbuilders areas in the same way as vessel listings (see section 1.3.1).

#### 1.4.8 Creating and Saving Reports

Having saved a report (see section 1.4.1 and 1.4.12 for further details on how to save queries created using the World Fleet Register), it is possible to access saved reports through the 'Databases' area of the Fleet Register screen. Once a report has been saved, a new database named 'Reports' will be available through this screen in the 'Databases' area.

Clicking on the Reports menu radio button will bring up a list of all previously saved reports/queries. To open a previously saved report, find its name in the list of reports and click on the 'Select' button (second from the right). This will open the report.

It is also possible to delete old reports. To do so, find the report that is to be deleted and click on the 'Delete' button, which is found on the far right hand side.

#### 1.4.9 Using Data Grid type

Users are able to make a selection in the Data Grid area which allows them to quickly alter the level of detail of the data displayed on screen depending on their preference from four options: Custom, Minimal, Medium, or Detailed.

#### 1.4.10 Analysis

The Analysis menu is located in the top right corner of the Fleet Register screen. There are two options available to users here.

#### 1.4.10.1 Analysis Menu

When using the Vessels database, users are able to use the 'Analysis Menu' to carry out a range of analytical functions on the current vessel selection. To do so, click on the grid icon, immediately to the right of the 'Analysis' heading. This will open up the 'Analysis Menu' box.

This 'Analysis Menu' box offers a range of options to the user, namely 'Fleet Profile Tables' and 'Top Tables' (which provide information such the top flags, top owners and top classification societies for the vessel selection in question).

#### 1.4.10.2 Fleet Profile Tables

To use the Fleet Profile Tables, click on a fleet profile table selection (either 'Size and Age Table', 'Fleet Profiles by Year of Build' or 'Fleet Summary'). This takes the user to the selected analysis table (see Appendix 1, Screen Shot 12).

In the 'Size and Age' and 'Fleet Profiles by Year of Build' analysis tables, the user has a range of options, which are listed on the left hand side of the box. In the top left corner, the user has two options, regarding how the data is to be presented in the table displayed to the right. Click on either the 'Age across the top button' or the 'Year of Build down the side' button to change how the data displayed in the table (the table will be updated automatically).

Below these two options are two areas listing 'Size Group Units' and 'What do you want totalled'. The 'Size Group Units' selection refers to how the vessel selection is being categorised (i.e. by selecting GT, the vessel selection will be grouped into bands based on each vessel's GT). This area includes a range of units which can be used to divide up the fleet in this way, including DWT, TEU etc. To change the unit being used, click on the appropriate button in the column, and then click on the 'Update Size Age Table' button at the bottom of the box. Just above this button are a range of 'Table Options', which allow the user to further specify how to categorise their vessel data. These include the 'Width of Bands for chosen Size Unit', which can be altered to change the size of the categories into which the vessel selection is being divided. Furthermore, there are options allowing the user to refine the way in which the age bands are organized (e.g. the number of years included in each band).

To the right of the 'Size Group Units' area, there is an area labeled 'What do you want totaled?' This lists the various units that can be analysed by the age and size group criteria chosen by the user through the 'Size Group Units' and 'Table Options' areas. The list includes a range of units including number, DWT, TEU, and GT.

Unlike the data display buttons, detailed above, making changes to the 'Size Group Units', 'Table Options' or 'What do you want totalled' areas does not lead to the displayed table being updated automatically. Users must click on the 'Update Size Age Table' button to make sure that the changes they have made in these areas are reflected in the table displayed.

The 'Fleet Summary' analysis table operated in a slightly different manner to the two other tables listed under the 'Fleet Profile Tables' heading insofar as it is not interactive. Clicking on 'Fleet Summary' provides the user with a displayed table which lists a selection of fields relevant to the vessel selection and then shows the maximum, minimum and average value of those fields of data.

#### 1.4.10.3 Top Tables

To use the 'Top Tables' analysis tables, users can click on the relevant 'Top Table' in the 'Analysis Menu' box. There are 7 top tables to choose from, namely 'Top Flags', 'Top Classification Societies', 'Top Owners', 'Top Owners Nationality', 'Owner Groups', 'Top Builders', 'Top Builder Countries'.

Clicking on the name of a 'Top Table' will bring up a new box, which will display a table containing the top 10 records for the selection made (see Appendix 1, Screen Shot 13). Each record shows the number of vessels and total GT as appropriate. At the bottom of the table there is an 'Others' row, which aggregates the remaining vessels and GT not accounted for by the top 10 records.

The user can change the number of records detailed in the table. There is a row of buttons at the top of the box (below the 'Analysis Menu' button in the top left corner), which allow the user to choose to show the

Top 5, Top 10, Top 25 or Top 50 records. In order to change the number of records being shown by the table, the user simply has to click on the appropriate button.

#### 1.4.10.4 Analysis Tables Printing and Spreadsheet Export

Across the selection of tables accessible through the 'Analysis menu' the user can export the tables to Excel for further analysis. To do so, users can click on the 'Export to Excel' button, located centrally at the top of each box. To the right of this is a 'Print' button, which allows the user to print out the current analysis table.

Additionally, across the selection of tables accessible through the 'Analysis menu', the user can return to the main 'Analysis Menu' box at any time by clicking on the 'Analysis Menu' button or the user can click on the 'Close' button to exit the 'Analysis Menu' section entirely and return to the 'Fleet Register' screen.

#### 1.4.11 Export to Excel Spreadsheet

If users wish, they can download the data extract they have prepared through the World Fleet Register into Excel spreadsheet for further analysis. In order to export the current data selection into Excel, click on the Excel icon in the 'Analysis' area in the top right corner of the Fleet Register screen.

This will bring up a box confirming that the file is ready to download. Click on the Accept button in the bottom right corner of the box to download the data into Excel. As well as allowing the user to download the data, clicking Accept confirms that the user is a valid user of the account and that they agree to the terms and conditions relating to use of the World Fleet Register.

#### 1.4.12 Options

The 'Options' area is located to the right-hand side of the 'Analysis' area in the top right corner of the Fleet Register screen. There are two options available to users here.

#### 1.4.12.1 Saving Reports

By clicking on the 'Save the current Grid selection as a report' icon, users can open the 'Save Report' box and have the option to save the currently selected data set as a report. To save the selection as a new report, users can type in the name of the new report in the 'Save New Report' box, and then click on the 'Save' button at the bottom of the box. Alternatively, it is possible to save the currently selected data set by overwriting an existing report. To do so, users can click on the 'Overwrite Existing Report ' dropdown box and then select the report to be overwritten before clicking on the 'Save' button at the bottom of the box to overwrite the report.

#### 1.4.12.2 Using The Letter Bar

Clicking on the 'Switch Vessel Name A/Z Letterbar On or Off' icon turns the 'A/Z Letterbar' on or off. The 'A/Z Letterbar' is a bar at the bottom of the screen listing the letters of the alphabet.

When using the Vessels, Owners, Builders, Flag State, Owner Groups and Nationality databases, clicking on one of the letters of the alphabet in the 'A/Z Letterbar' will display in the grid the records starting with that letter.

#### 1.4.13 The 'Reset' Button

Once a user has completed work with a particular dataset, it is possible to reset the World Fleet Register automatically, rather than having to remove all customized criteria used in a previous query/report manually before starting work on a new task. To restore the original Fleet Register settings and the initial Data Grid view, click on the 'Reset' button. This can be found at the top of the Fleet Register screen, to the left of the Quick Search box.

#### 1.4.14 Moving Between Databases

Having generated and displayed in the 'Data Grid' a selection of data based on certain criteria, it is possible to move between databases without these criteria being reset.

For example, the 'Vessels' database could be used to generate a listing of 1990s-built bulkcarriers in the DWT range 60,000-70,000 along with useful information about the vessels in question. However, it is possible to find out additional information about the vessels listed by changing the database being used whilst maintaining the current criteria (in this case 1990s-built bulkcarriers in the DWT range 60,000-70,000). For example, clicking on the 'Owners' radio button in the 'Databases' area, for instance, will generate a list of all the owners of the 1990s-built bulkcarriers in the DWT range 60,000-70,000, whilst selecting the 'Builders' radio button in the 'Database' area will generate a list of the builders of the selected vessels.

This functionality allows users to easily access useful information across databases, without having to restate the criteria each time they move from one database to another. The 'Reset' button can be used at any time to reset the selection to the global vessel listing and clear all of the criteria.

#### 1.4.15 Using Quick Search Across Databases

In addition to using the 'Quick Search' function to search across the vessel database by name, ex-name or IMO number, within the other databases the 'Quick Search' function can also be used to search by Owner or Builder, for example in the 'Owners' or 'Builders' databases respectively.

#### 1.5 Time Series

The Timeseries section is a key part of the World Fleet Register, allowing the user to analyse trends in fleet development. A 'Time-Series' plots the development of the fleet, the orderbook, deliveries or contracts for example on a regular basis over time, showing when it is growing or contracting. There are a range of data selections available, along with options to display Annual, Quarterly or Monthly data frequency. The Timeseries interface remains in the same format for all time-series generation, and the latest observation in all available timeseries is the start of the most recent month.

#### 1.5.1 Browsing for Timeseries: Quick Guide

- i. Make the appropriate selections in the 'Data Type' section.
- ii. Click 'Get Timeseries'.
- iii. Select the required timeseries from the list and also a selection from the 'Output Options' area at the right of the screen.
- iv. Click 'View Data' to bring up the pop-up box showing the full timeseries.
- v. Click 'Quick Chart' to display the selected time-series on a graph.
- vi. Click 'Excel' to export the selected time-series to excel spreadsheet.

#### 1.5.2 Browsing for Timeseries: In Detail

The first stage of the timeseries extraction process is for the user to select the type of timeseries which is required. To achieve this, the timeseries screen provides a series of filters to allow the user to drill down to specific timeseries.

- i. A series of 'Section' check boxes along the top of the Timeseries screen allows the selection of different data types Fleet, Orderbook, Contracts, Deliveries & Additions, Demolitions & Removals and Sales. The user can click on one or more data type sections as required.
- ii. A series of radio buttons in the 'Vessel Type' area down the left hand side of the Timeseries screen allow particular vessel type groups to be selected (e.g. 'Oil Tankers'). On selection of a particular vessel group, further drop down boxes appear on the screen below this area, allowing for further drill-down by size (the 'Vessel Size Filter') or specific vessel type feature (the 'Vessel Feature Filter').
- iii. The Data Type area provides a browse tree of check boxes for Flag, Owner Nationality, Classification Society, Builder Country and Fleet Totals. This allows the user to click to filter the timeseries selection to only those referring to specific owner nationalities, flags, classes or builder nationalities. Note that timeseries are not necessarily available for all combinations of 'Section' and 'Data Type'. For instance, there are no timeseries available for the orderbook development for classification societies, since the act of formal classification occurs as the ship is delivered.
- iv. The 'Get Timeseries' button is the next important step in the process. Once the user has selected the necessary filters to identify the timeseries required, clicking this button returns a list of all of the timeseries matching the selected criteria into the 'Select Timeseries Fleet' area in the middle of the screen, and also displays the latest monthly value of each timeseries (see Appendix 1, Screen Shot 14).

The second stage of the process is for users to extract the Timeseries required in the chosen format.

- i. The user can click on the timeseries listed in the 'Select Timeseries Fleet' area to select the timeseries required, using the CTRL key to select multiple timeseries if needed.
- ii. The user can then select the unit type required for the selected timeseries in the 'Unit Type' area. Timeseries are available in six different units.
- iii. Clicking on a selection in the 'Show' area of the Timeseries screen allows the user to narrow the timeseries selection shown in the 'Select Timeseries Fleet' area (e.g. to the Top 25 records) based on the latest timeseries value.
- iv. The 'Output Options' area on the right of the Timeseries screen allows the user to click to select the timeseries frequency required: annual, quarterly and monthly frequencies are available.
- v. The 'Output Options' area on the right of the Timeseries screen also contains the extraction buttons. These three buttons allow the user to click 'View Data' to display the selected timeseries in a pop-up browser window (which also offers 'Chart' and 'Print' options), display the timeseries graphically by clicking 'Quick Chart', or extract the timeseries data into Excel spreadsheet by clicking 'Excel'.
- 1.5.3 Searching for Time-Series

To the right of the 'Reset' button at the top of the screen is a box labeled 'Quick Search'. Entering text into this box and clicking the search button will list in the 'Select Timeseries Fleet' area all of the available series relating to that search. Note that the timeseries identified by searching is further restricted by other selections made elsewhere on the Timeseries screen. The 'Keyword filter' search box in the 'Data Type' area performs the same function as the 'Quick Search' box, and in both cases the user has the option between a 'Starts' search and a 'Contains' search.

#### 1.5.4 The 'Reset' Button

In the Timeseries screen clicking the 'Reset' button returns the user to the full available selection of timeseries, removing all previously selected timeseries criteria.

#### 1.6 Publications

The Publications screen provides the user with access to latest and archive copies of selected CRSL fleet periodicals and vessel registers (see Appendix 1, Screen Shot 15). Users can click on the links or images to view the latest editions of the monthly periodicals as eBooks or PDF format files (which can be downloaded and saved) and the latest editions of the vessel registers as eBooks. Archive editions can also be accessed by selecting the required edition from the 'Previous issues' drop down boxes displayed under each publication's name.

#### 1.7 Printing from the World Fleet Register

In general, the majority of World Fleet Register content can be printed by the user.

Selections in the 'Fleet Register' part of the site can be printed by extracting them into Excel spreadsheet and then selecting the print option. Tables accessed from the 'Analysis Menu' can be printed using the 'Print' button in the appropriate box.

Timeseries can be printed by displaying the information in question via the 'View Data' button. The top right of the resultant pop-up box contains a 'Print' button which will display the data in printer-friendly format, ready for printing.

Publications or extracts thereof can be printed by opening them in PDF or eBook format, and then selecting the appropriate print option.

### **Appendix 1: Screen Shots**

Screen Shot 1 – World Fleet Register Home Page

The home page provides a quick introduction to the site and provides links to a range of useful areas.



Screen Shot 2 – Searching For a Vessel

Users can search for a vessel by using the 'Quick Search' function at the top of the screen. Here the search for "emma maersk" returns the details of the Fully Cellular Containership 'Emma Maersk'.

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Vessels     Owners	Flag State Engines Owner Groups Piracy	Oil Tankers ORo-Ro Dulkers Ogeneral Cargo		31) G Tugs C Cruis	se	Vessel Type Draught	(m) Evel Type	er Unit	Owner Company Flag State	Hull No	Custom Minimal
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# Screen Shot 3 – Searching For a Vessel by Flag

Users can search for a vessel by flag by clicking on 'Flag State' in the Regulatory, Ownership area, which opens the 'Flag State Criteria' box where the user select the flag by which to search.

	O Home O Fleet	Register O Timeseries O Publications O About Us	◯ Shop ◯ Contact Us ◯ Bespoke	Data 🔿 Feedback 🔿 My Profile			,
tatus: 🗵	Fleet 🔲 Orderbook 🔲 Under O	onversion Demolitions/Removals Reset	Quick Search:	Search X In	c.Exname	Analysis: 🔛	🕱 Options: 🛃 🛧
Databas	es Use:	Ship Types ( All (All)	▼ {All}	Vessel Characteristics		Regulatory, Ownership	Shipbuilders Data Grid
Vesse     Owne     Builde     S&P     Repo	Iso     Flag State     Engine       rs     Owner Groups     Piracy       rs     Class Society     Okacionality       Nationality     Ship Types	s Oll Tankers Ro-Ro Bulkers General Cargo Combos Parcel Tankers Containerships Spec. Tankers MPP LPG	LNG     Tugs       PCC     Cruise       Reefers     Ferries       Offshore     Oth Non Cargo       Dredgers	Vessel Type Draught (m) V GT Speed (knots) V Dwt Beam (m) V Built V Status LOA (m) Power Type	Fuel Type Main Power Unit More	Owner Company Flag State Owner Nationali Class Soc More	Hull No © Custon Duilder Minima Builder Country Mediur Contract Date Detaile More Choose
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1	2GO 2 3 Queen I	Fully Cellular Container Unknown General Cargo	10,868 15,162 1,903 3,235	1990         In Service         At           1953         In Service         Ur	nknown	J. J. Sietas Grangemouth D/Y	Philippines Belarus

# Screen Shot 4 – Searching For a Vessel by Ship Type

Users can search for a vessel by type by using the options in the Ship Types area. Here the user has selected 'Oil Tankers' and has selected the first drop down box to allow selection between tanker size ship types.

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2	101 Hyodona Chemi	Chemic	Garrier	2 556	1,50	5 19/5	In Service	Linknown I	(orean	Heuro S B		D/Hull	
3	18Heaven	Product	Carrier	2,550	4 43	4 1982	In Service	Unknown	Singanore	Havashikane		Diritin	
4	801	Product	Carrier	487	80	0 1980	In Service	Unknown	Avanmar	Hiorungayaag			
5	A A Bakykhanov	Product	Carrier	4,134	4,98	7 1984	In Service	Caspian S	hipping	Volgograd S.Y.			
6	A Elephant	Tanker		161,969	320,10	5 2010	In Service	TMT Co. L	td.	Daewoo		D/Hull	
7	<u>A.K.</u>	Product	Carrier	1,841	3,88	3 1970	In Service	United Hi-	Fech	Watanabe Zosen			
8	<u>A.K.2</u>	Product	Carrier	673	1,40	0 1979	In Service	Unknown	Fhailand	Kanto Kogyo KK			
9	<u>A. K. 3</u>	Tanker		430	93	9 1978	In Service	United Hi-	<u>Fech</u>	Unknown Yard			
10	<u>A. K. 6</u>	Tanker		1,996	3,59	0 1969	In Service	United Hi-	Tech	Hashihama Zosen			
11	<u>A. V. 12</u>	Tanker		989	2,25	0 1977	In Service	Unknown	Thailand	Murakami Hide			
12	A.Michel	Prod / C	hem Carrier	4,346	6,71	1 1998	In Service	Poseidon	<u>s.a</u>	Miyoshi Zosen		D/Hull	
13	Abadab	Topker	Carrier	1,700	00.14	4 1972 5 2000	In Service	Net Irenia	Tanker	Deewoo		D/Holl	
15	Abadi	Product	Carrier	384	00,14	3 2000	In Service	Unknown I	ndonesian	Unknown Yard		Chridi	
16	Abadi Perkasa	Tanker		1,167	2.72	6 1972	In Service	Unknown	ndonesian	Kurinoura Dock			
17	Abai	Tanker		7,224	12,36	8 2005	In Service	Kazmortra	nsflot	Vyborg SY		D/Hull	
18	Abalon	Tanker		680	1,25	0 1996	In Service	Magsaysa	/ Maritime	Unknown Yard			
19	Abdullah	Product	Carrier	680	99	6 1976	In Service	Tameem S	hipping LLC	Teraoka S.Y.			
20	Abebi	Tanker		3,579	4,70	0 1958	In Service	Unknown I	Vigerian	Nordenwerft			
21	Abelia	Tanker		101	32	4 1989	In Service	Unknown	lapanese	Kanbara Zosen KK			
22	Aberdeen	Shuttle	Tanker	47,274	87,05	5 1996	In Service	Chevron N	orth Sea	A.E.S.A.		D/Hull	
23	Abeskun	Tanker		543	96	5 1970	In Service	Unknown	Kazakhstani	Gemi-Is Kolleketif			
24	Abasia	Dunken	iy vessel	150 000	302.09	u 1965 e 2002	In Service	Net Shood	Nussial1 Of S Arabia	Sameuno H I		D/Hull	
26	Abram Schulte	Product	Carrier	41 503	72 71	8 2002	In Service	Schulte Gr		Samsung H.I.		D/Hull	
27	Absheron	Tanker	ound.	60.379	107.46	6 2010	In Service	Palmali Sh	ipping	Tsuneishi Zosen		D/Hull	
28	Abt	Prod / C	hem Carrier	5,207	9,14	5 1981	In Service	Blueseas	Aaritime	Higaki Zosen		D/Bottom	n
29	Abu Dhabi Star	Prod / C	hem Carrier	29,734	51,06	9 2008	In Service	Star Mariti	me Pte	STX Shipbuild.		D/Hull	
30	Abu Dhabi-III	Product	Carrier	57,748	105,13	1 2011	In Service	ADNATCO		Hyundai H.I.		D/Hull	
31	Abu Ziad	Product	Carrier	1,918	3,46	3 1969	In Service	Unknown	Greek Owner	Tokushima Zosen			
32	Abul Kalam Azad	Tanker		51,800	92,68	7 1999	In Service	Shpq. Con	o. of India	Cochin S.Y.		D/Hull	
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# Screen Shot 5 – Searching For a Vessel by Owner

Users can search for a vessel by owner by clicking on 'Owner Company' in the Regulatory, Ownership area, which opens the 'Owner Company Criteria' box where the user select the owner by which to search.

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Databases	Use:	Ship Types ( All (All)	(All)	Vessel Ch	aracteristics		Regulatory, Ownership	Shipbuilders	Data Grid
Vessels	Flag State     Fingines	O Oil Tankers O Ro-Ro	ING Tuos	Vessel	Type Draught (m)	uel Type	Owner Company	Hull No	Custon
Owners	O Owner Groups O Piracy	Bulkers General Carron	PCC Cruise	V GT	Sneed (knots)	ain Power Linit	Elan State	V Builder	Minima
Buildare	Class Society	Combos Darrel Tankers	Reafere Earries	V Dut	Beem (m)		Owner Nationali	Builder Country	Medium
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ow	Vessel Name	Vessel Type		y cirtain	0 0 0 0	Owner	Company	Builder Name	
	1 Athar	Product Carrier	Barakat Al-Ashoor	<b></b>		ce Iragi Oil	Tankers	Yamanishi Zosen	
	<u>1 YIIQIZ</u>	Tug	Barber Kværner M.M. Barente Bulk			ce Unknow	n Turkish	Avondale SY	
	10	Tug	Barhoum Maritime Co.			ce <u>Antwerp</u>	Port	Unknown Yard	
	10 de Dezembro	Water Carrier	Baris Denizcilik Barry Graham Oil			ce <u>Cabotac</u>	tem Angolana	Ton Bodewes	
	101 Hyodong Chemi	Chemical & Oil Carrier	Barsay Denizcilik			ce Unknow	n Korean	Il Heung S.B.	
	106	Ro-Ro	Bartels, Mirko			ce Unknow	n	Linhai Hangchang	
	<u>11</u>	Tug	Baru Kaha Inc.			ce <u>Antwerp</u>	Port	Unknown Yard	
	11 de Novembro	water Camer	Baruna Raya Logistic			ce <u>Cabotad</u>	tem Angolana	Ton Bodewes	
	120-1	Tug	BAS			ce <u>Crowley</u>	Maritime	Unknown Yard	
4	120-2	Lieleaue Canasal Cases	Basto Fosen A/S Batamas Babtera			ce <u>crowey</u>	Wanune	Makamatau Zasas	
2	14th Ostober	Tura	Batangas Bay			ve <u>Nav. All</u>	a verue Port Authority	Scott and Sons (Bor	a.d
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	1002.04	Research Vascal	Bay Ferries Bay Towage & Salvage			Usterrei	n citya	Con Viskers	
2	1000.01	Buoy/Lighthouse Tender	Bay Towing Inc.			se Verregu	It Nevinstion	Unknown Vard	
7	20 de Octubre	Tuo	Bayazid Shipping Co. Baycoro Shippingt			se Unknow	n Guatamalan	Unknown Vard	
2	2001	December Vessel	Baydelta Maritime			se Unknow	n Australian	Incet Termania	
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2	20th June	Tug	Bayu Tiram		01	ce Yemen	Port Authority	W J Yarwood & Son	IS
3	21 Guang	General Cargo Tramp	BBC Burger BBL Marine		OK	ce Unknow	n Chinese	LH.L	
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7	24th October	Tug				ce Unknow	n Egyptian	Port Said Eng. Wrks	<u>.</u>
3	26 Agustos	Bulk Carrier	diala an (Criteria and		10229/VA21 FIEL	ce Nemtas	Nemrut Liman	Tsuneishi Cebu	
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C	2GO 1	Fully Cellular Container	10,868	15,165	1990 In Serv	rice Aboitiz	Jebsen Bulk	J. J. Sietas	
1	2GO 2	Fully Cellular Container	10,868	15,162	1990 In Serv	rice Aboitiz	Jebsen Bulk	J. J. Sietas	
2	3 Queen I	Unknown General Cargo	1,903	3,235	1953 In Serv	vice Unknow	n	Grangemouth D/Y	

# Screen Shot 6 – Creating a Vessel List

The user can refine the listing of vessels shown in the data grid, here selecting Oil Tankers, UL/VLCC 200,000+dwt, Double Hull.

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atus: 🔽 Fle	et 🔲 Orderbook 🔲 Under Conv	ersion 🔲 Demolitions/Removals	Reset Quick Searc	h:	Search		nc.Exname		Analysis: 📰 🖬	Options: 🔛	Az	
Databases	Use:	Ship Types 🔘 All UL/VLCC 200,000	)+ dwt 💌 Double Hull		Vessel Characteristics			Oil Tankers		Regulatory, Or	wnership	Shi
Vessels     Owners     Builders     S&P	Flag State     Engines       Owner Groups     Piracy       Class Society     Nationality	Oil Tankers Ro-Ro     Bulkers General Carg     Combos Parcel Tanker     Containerships Spec. Tanker	LNG Tug D PCC Cru s Reefers Fer s Offshore Oth	s se	Vessel Type Draugt GT Speed Dwt Beam Built V Status	ht (m) Fuel (knots) Main (m)	Type Power Unit	Pumps Total No Hull Type Heating Coils M Heating Coils (	Cargo Barrels N Coating Tank In SBT Segregated Tanks No	Owner Com Flag State Owner Natio Class Soc	npany onali	
C Reports	9 Ship Types		O Dredgers		LOA (m) Power	Type More.		Heated (Ind)	Wore			
Row	Vessel Name	Vessel Type	Gt	Dwt	Vear Built	Statue	Owner Co	woony	Builder Name		Holl Tor	00
NON .	A Flashest	Testes	01	200 405	Toar Duit	la Casilas	THE CO	anparty	Desires		Direction of the	00
	A ciephant Abasia	Tanker	161,96	320,105	2010	In Service	Mat Shee (	<u>IC.</u> M.S. Arabia	Daewoo Sameuna H I		D/Hull	
	Achillese	Tanker	155,55	302,300	2002	In Service	Crude Can	iare	Universal S B		D/Hull	
	Adventure	Tanker	160.90	308.829	2015	In Service	Eastern Me	-d Mar	Samsung H I		D/Hull	
	Al Jabrivah II	Tanker	161.11	3 317.260	2007	In Service	Kuwait Oil	Tanker	Hyundai H.I.		D/Hull	
	Al Rigga	Tanker	162.62	318.000	2011	In Service	Kuwait Oil	Tanker	Daewoo		D/Hull	
	Al Salheia	Tanker	158,50	310,433	1998	In Service	Kuwait Oil	Tanker	Hyundai H.I.		D/Hull	
	Al Salmi	Tanker	162,62	5 291,200	2011	In Service	Kuwait Oil	Tanker	Daewoo		D/Hull	
	Al Shegaya	Tanker	158,50	310,513	1998	In Service	Kuwait Oil	Tanker	Hyundai H.I.		D/Hull	
)	Albutain Star	Tanker	162,25	319,430	2008	In Service	Vela Intern	ational	Daewoo		D/Hull	
	Alexander The Great	Tanker	156,91	5 297,456	2010	In Service	Crude Can	iers	Universal S.B.		D/Hull	
	Alfa Glory	Tanker	159,42	2 309,636	1997	In Service	Gulf Marine	e Mngt.	Samsung H.I.		D/Hull	
5	Algarve	Tanker	157,83	3 298,969	1999	In Service	Euronav (L	JK) Agen.	Daewoo		D/Hull	
	Almizan Star	Tanker	161,24	319,464	2008	In Service	Vela Intern	ational	Daewoo		D/Hull	
	Alrehab	Tanker	160,27	301,620	1999	In Service	Int. Marine	Transpt.	<u>LH.I.</u>		D/Hull	
	Alsace	Tanker	162,00	318,000	2012	In Service	Euronav (L	K) Agen.	Samsung H.I.		D/Hull	
	Allali Hauer	Tanker	160,21	299,900	2005	In Service	Node Merit	ime Agenav	Semana H I		D/Hull	
	Aminuted Aminu Star	Tanker	156 33	201381	1003	In Service	Nathalin G	Inte Agency	Hitschi Zosen		D/Hull	
	Amphitrite	Tanker	162.19	321,301	2010	In Service	Minerva M	arine Inc	Daewoo		D/Hull	
	Andromeda	Tanker	162.19	3 321,300	2010	In Service	Minerva Ma	arine Inc.	Daewoo		D/Hull	
	Andromeda Glory	Tanker	162.19	3 321,300	2011	In Service	Gulf Marine	e Mngt.	Daewoo		D/Hull	
	Andromeda Voyager	Tanker	160,80	3 320,472	2005	In Service	Maran Tan	kers Mngt.	Daewoo		D/Hull	
	Antarctica	Tanker	161,30	315,981	2009	In Service	Euronav (L	JK) Agen.	Hyundai H.I.		D/Hull	
	Antares Star	Tanker	162,86	3 319,286	2010	In Service	Vela Intern	ational	Daewoo		D/Hull	
	Antares Voyager	Tanker	161,53	320,000	2012	In Service	Maran Tan	kers Mngt.	Daewoo		D/Hull	
	Antonis	Tanker	160,00	308,500	2001	In Service	Enesel S.A	<u>.</u>	Samsung H.I.		D/Hull	
	Antonis I. Angelicoussis	Tanker	156,50	306,283	2000	In Service	Maran Tan	kers Mngt.	Daewoo		D/Hull	
	Apollonia	Tanker	160,90	309,064	2003	In Service	Neda Marit	ime Agency	Samsung H.I.		D/Hull	
	Apolytares	Tanker	160,61	316,427	2009	In Service	Minerva Ma	arine Inc.	Hyundai H.I.		D/Hull	
	Aquarius Voyager	Tanker	161,33	320,821	2005	In Service	Maran Tan	kers Mngt.	Daewoo		D/Hull	
	Aquarius Wing	Tanker	154,36	302,159	2005	In Service	Nippon Yu	sen Kaisha	<u>I.H.I.</u>		D/Hull	

Screen Shot 7 – Viewing Vessel Details

Clicking on a vessel in a listing displays the vessel's specifications and details.



Screen Shot 8 – Filtering a Vessel List

The user can further refine vessel lists by using the filter options on the range of criteria available in the Vessel Characteristics, ship type specific vessel characteristics (where shown), Regulatory, Ownership and Shipbuilders areas. Here the user has clicked on 'Built' in the Vessel Characteristics area and is filtering for vessels with a year of build between 2007 and 2009.

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O S&P C	Nationality	O Containerships	O Spec. Tankers	Offshore	Oth Non Cargo	🗹 Built	✓ Status			Heating Coils (	Tanks No	Class Soc		Cor
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2	Abgaig	Tanker				Shawin Curt	Data (				Samsung H.I.		D/Hull	
3	Achilleas	Tanker	Lowest	Highest		Show in Cust	iom Data C	ind			Universal S.B.		D/Hull	
4	Adventure	Tanker				Use Criteria t	to Filter Da	ta			Samsung H.I.		D/Hull	
5	Al Jabriyah II	Tanker	2007	2009		OK Cano	el				Hyundai H.I.		D/Hull	
6	Al Rigga	Tanker									Daewoo		D/Hull	
7	Al Salheia	Tanker									Hyundai H.I.		D/Hull	
8	Al Salmi	Tanker									Daewoo		D/Hull	
9	Al Sheqaya	Tanker									Hyundai H.I.		D/Hull	
10	Albutain Star	Tanker									Daewoo		D/Hull	
11	Alexander The Great	Tanker									Universal S.B.		D/Hull	
12	Alfa Glory	Tanker									Samsung H.I.		D/Hull	
13	Algarve	Tanker									Daewoo		D/Hull	
14	Almizan Star	Tanker									Daewoo		D/Hull	
15	Alrehab	Tanker	dialogs/Criteria.a	spx?XA20_FIELD_ID	=1006&XA21_F	TELD_NAME=A1	2_YEAR_B	UILT&XA22_FI	ELD_TYPE=in	t "s	<u>LH.L</u>		D/Hull	
16	Alsace	Tanker		102	,000 510,0	00	2012	III Service	Luronav (	UNT MOOIL	Samsung H.I.		D/Hull	
17	Altair Trader	Tanker		160	,216 299,9	985	2005	In Service	Mitsui O.S	K. Lines	Mitsui SB		D/Hull	
18	Amantea	Tanker		160	,100 309,2	287	2002	In Service	Neda Mari	time Agency	Samsung H.I.		D/Hull	
19	Amity Star	Tanker		156	,336 291,3	181	1993	In Service	Nathalin G	roup	Hitachi Zosen		D/Hull	
20	Amphitrite	Tanker		162	,198 321,3	800	2010	In Service	Minerva M	larine Inc.	Daewoo		D/Hull	
21	Andromeda	Tanker		162	,198 321,3	00	2008	In Service	Minerva M	lanne Inc.	Daewoo		D/Hull	
22	Andromeda Glory	Tanker		162	,198 321,3	170	2011	In Service	Gult Marin	e mngt.	Daewoo		D/Hull	
23	Andromeda voyager	Tanker		160	,000 320,4	12	2005	In Service	Maran Tar	IKEIS MINUL	Daewoo		D/Hull	
24	Antarctica Antarca Star	Tanker		161	,300 315,5	101	2009	In Service	Euronav (	JR) Agen.	Enyundal H.I.		D/Hull	
25	Antares Star	Tanker		162	535 220.0	100	2010	In Service	Maran Tor	Nere Mont	Daewoo		D/Hull	
27	Antonie	Tanker		101	,000 320,0	500	2012	In Service	Eneral C	Noro-Willigt.	Sameuno H I		D/Hull	
28	Antonie I. Angelicourerie	Tanker		160	505 306,5	183	2001	In Service	Maran Tar	n. Nore Mont	Deewoo		D/Hull	
29	Anolionia	Tanker		150	904 309.2	164	2000	In Service	Neda Mari	time Agency	Samsuno H I		D/Hull	
30	Anolytares	Tanker		160	619 316 /	127	2003	In Service	Minerve M	larine Inc	Hyundai H L		D/Hull	
31	Aquarius Voyager	Tanker		160	331 320.6	121	2005	In Service	Maran Tar	akers Mnot	Daewoo		D/Hull	
32	Aquarius Wing	Tanker		154	.369 302.1	59	2005	In Service	Nippon Yu	isen Kaisha	LH.I.		D/Hull	
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Screen Shot 9 - Adding A Field To Vessel Analysis

Vessel listings can also display and/or be filtered by a wide range of other fields not listed by default in the vessel characteristics, ship type specific vessel characteristics, regulatory/ownership and shipbuilders areas. Here the user has clicked on 'More...' in one of the listed areas and has selected to add the 'Flag State' field from the list of 'Available Fields' adding it to the list of 'Used Fields'.

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1	<u>A Elephant</u>	Pumps	Builder Flag State	Flag State		_		D/ł	Hull	
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6	Al Ricca	Dredger Details	]	<< Remove		<b>•</b>	<u></u>	D/ł	Hull	-
7	Al Salheia	Deck Details	4			H	12	D/I	Hull	
8	Al Salmi	Machinery Summary	4					D/ł	Hull	
9	Al Sheqaya	Machinery - Main Engine(s)	1			H.	.1.	D/ł	Hull	
10	Albutain Star	Machinery - Auxillary Engine(s)	]					D/ł	Hull	
11	Alexander The Great	Machinery - Propulsors				15	<u>S.B.</u>	D/ł	Hull	
12	Alfa Glory	Machinery - Fuel Type &				<u>a H</u>	<u>H.I.</u>	D/ł	Hull	
13	Algarve	Machinery - Other	1					D/ł	Hull	
14	Almizan Star	Engine Models	]					D/ł	Hull	
15	Alrehab	Piracy			Field Counter:			D/F	Hull	
16	Alsace Altain Trades	Alphabetical Order		13/40			<u>H.I.</u>	D/r	HUII	
18	Amantas						HI	D/ł	-toll	
19	Amity Star		Cancel Reset	to Default OK and Save		los	sen	D/ł	Hull	
20	Amphitrite					0.0	and a	D/r	Hull	
21	Andromeda							D/ł	Hull	
22	Andromeda Glory							D/ł	Hull	
23	Andromeda Voyager							D/ł	Hull	
24	Antarctica					H.	<u>.l.</u>	D/h	Hull	
25	Antares Star							D/h	Hull	
26	Antares Voyager							D/ł	Hull	
27	Antonis					<u>a H</u>	<u>H.I.</u>	D/ł	Hull	
28	Antonis I. Angelicoussis							D/ł	TUII	
29	Apolionia		and an increase and a second second second second			<u>a h</u>	<u>H.I.</u>	D/r	HUII	-
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# Screen Shot 10 – Creating an Owners Listing

Clicking on the 'Owners' radio button in the Databases area creates an owners listing. Here the user has selected an owners listing having pre-selected the 'Oil Tankers' fleet in the Ship Types area.

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Databas	es Use:	Ship Types (	) Ali (Ali)	(All)	•	/essel Characteristi	CS		Oil Tanker	rs		Regulatory, Ov	wnership	Shipt
<ul> <li>Vess</li> <li>Own</li> <li>Build</li> <li>S&amp;P</li> <li>Resr</li> </ul>	els Flag State Engines ers Owner Groups Piracy ers Class Society Nationality	Oil Tankers     Bulkers     Combos     Containers     MDD	s Ro-Ro General Cargo Parcel Tankers hips Spec. Tankers	LNG     PCC     Reefers     Offshore     Decdearre	Tugs Cruise Cruise Cruise Cruise Cruise Cruise Cruise Cruise Coth Non Cargo	Vessel Type [] GT [] Dwt [] Built [] LOA (m) []	Draught (m) Speed (knots) Beam (m) Status	Fuel Type Main Power Unit	Pumps Hull Ty Heating	Total No Cargo pe Coati g Coils M SBT g Coils ( Tanki (ded) More	o Barrels N ng Tank In Segregated s No	Owner Com Flag State Owner Nati Class Soc	npany	Bu Bu Co
C Repu		U MPP	O LPG	O Diedders			ower type (	more	L Heated	(ind)	····	WOIC		more
Row	Owner Company		Owner Nationality	Vessels	Total DWT tonnes	Total GT	Total TEU	Total CGT	Total HP	Average Age	Average DV	VT Tonnes	Average	GT
1	Mitsui O.S.K. Lines		Japan	69	12.341.19	9 6.554.456		2.178.269	1.769.002	5	-	178.857	9	4.992
2	Nat. Iranian Tanker		Iran	43	9,707,96	2 5,132,648		1,580,514	1,308,781	9		225,766	11	9,363
3	Nippon Yusen Kaisha		Japan	42	8,774,06	2 4,657,917		1,456,026	1,251,656	6		208,906	11	0,902
4	Maran Tankers Mngt.		Greece	37	8,724,81	5 4,476,474		1,373,539	1,161,534	9		235,805	12	0,985
5	Dynacom Tankers Mngt		Greece	52	8,204,16	0 4,456,307		1,569,455	1,267,682	5		157,772	8	5,698
6	A.P. Moller		Denmark	65	7,994,01	3 4,335,648		1,738,191	1,321,689	5		122,984	6	6,702
7	China Shpq. Tankers		China P.R.	92	7,262,30	4,052,646		1,750,882	1,319,131	11		78,938	4	4,050
8	Sovcomflot JSC		Russia	74	6,785,83	9 3,790,008		1,767,913	1,441,238	6		91,700	5	1,216
9	Ocean Tankers Pte		Singapore	94	6,758,56	0 3,755,721		1,649,813	1,291,238	11		72,672	3	9,954
10	CSC Nanjing Tanker		China P.R.	59	6,696,46	4 3,702,482		1,391,263	1,015,255	4		113,499	6	2,753
11	Euronav (UK) Agen.		Belgium	29	6,322,93	9 3,306,255		1,044,707	838,737	8		218,032	11	4,008
12	Ship Finance Inter.		Norway	26	6,071,11	0 3,212,692		977,875	756,733	11		233,504	12	3,565
13	AET Tanker		Malaysia	46	5,498,19	2,998,554		1,187,512	887,247	10		119,525	6	5,185
14	BW Maritime Pte.		Singapore	30	5,425,74	4 2,908,077		955,328	769,110	7		180,858	9	6,935
15	Nat.Shpq.Of S.Arabia		Saudi Arabia	17	5,255,76	4 2,745,626		759,198	700,492	9		309,162	16	1,507
16	Overseas Shipholding		United States	29	5,077,73	6 2,719,986		927,652	706,183	7		175,094	9	3,792
17	General Maritime		United States	32	5,110,72	2,674,987		976,845	753,760	9		159,710	8	3,593
18	Minerva Marine Inc.		Greece	44	4,921,58	9 2,669,743		1,165,134	883,247	6		111,854	6	0,675
19	Vela International		Saudi Arabia	20	5,054,95	9 2,624,521		768,492	653,472	6		252,747	13	1,226
20	Teekay Offshore		Canada	39	4,515,34	3 2,547,218		1,036,011	829,590	13		115,778	6	5,313
21	Tsakos Energy Nav.		Greece	45	4,673,08	2 2,541,186		1,157,891	870,908	6		103,846	5	6,470
22	Shpq. Corp. of India		India	40	4,486,86	9 2,451,268		986,336	729,614	9		112,171	6	1,281
23	Oman Shipping Co.		Oman	16	4,500,96	0 2,333,752		675,769	444,363	2		281,310	14	5,859
24	Formosa Plastics Co.		Talwan	33	4,142,15	9 2,248,240		933,661	672,114	3		125,519	6	8,128
25	Carom Marine Inc.		Greece	27	3,878,52	2,091,946		776,568	591,696	6		143,648	7	1,479
26	Inenamaris (Mgmt.)		Greece	35	3,769,78	4 2,074,723		900,684	655,116	8		107,708	5	9,277
2/	Six Snipping Co. Ltd.		South Korea	20	3,838,13	1,980,430		627,951	529,229	4		191,906	9	9,021
20	Line		Longo	58	3,315,04	1,9/5,614		1,339,147	024,704	1		57,156	3	4,002
20	N-Line Kuwait Oil Tanker		Japan	10	3,490,00	1,040,307		612 729	409,674	5		210,030	11	3,394
31	Gulf Marine Mont		Greece	11	3,3/5,5/	1 1 750 329		487.090	400,000	10		307 614	15	9 120
32	Teekay Corporation		Canada	27	3 124 74	2 1 723 316		725 224	525 308	8		115 731	6	3 826
32	Teekay Corporation		Canada	21	3,124,74	1,723,316		125,224	525,306	•		115,731		3,6.

Screen Shot 11 – Creating a Sales Listing

Clicking on the 'S&P' radio button in the Databases area creates an owners listing. Here the user has selected a sales listing having pre-selected the 'Bulkers' fleet in the Ship Types area.

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C) Re	norts C Shin Types	_			C Dred	ars	LOA (m)	Power Typ	pe More		Hatches Total N	ore	More	Mon
_	1							-						
Row	Vessel Type at Sale	Name	e at Sale	Dwt	Year Built	Builder Name	Sale Date	Currency	Price (Sale)	En. Bloc.	Buyers	Buyer Count	try Sellers	Se
1	Bulk	Panos	Earth	75,846	1984	Mitsubishi H.I.	29-Jun-12		2.71		Chinese interests	China P.R.	Pacific Bulk	Ch
2	Bulk	Emera	ald Ocean	33,355	2009	Shin Kochi H.I.	29-Jun-12		18.60		Greek interests	Greece	Doun Kisen K.K.	Ja
3	Bulk	Easter	rn Queen	70,196	1994	Daewoo	27-Jun-12				Undisclosed interests	Unknown	Joong Ang Shpg. Co	o. So
4	Bulk	Ciclop	e	29,319	1985	Sumitomo H.I.	26-Jun-12		3.10		Turkish interests	Turkey	Ership S.A.	Sp
5	Bulk	Fenix		30,026	1985	Mitsubishi H.I.	26-Jun-12		3.00		Turkish interests	Turkey	Ership S.A.	Sp
8	Bulk	Ocear	Belle	32,130	1999	Saiki Hvy. Ind.	26-Jun-12		9.80		Korean interests	South Korea	Daiichi Chuo Marine	Ja Ja
7	Bulk	Unive	rsal Challenger	63,800	1983	Burmeister & Wain	26-Jun-12				Undisclosed interests	Unknown	Rogers & Co.	Ma
В	Bulk	Globa	I Purity	28,339	2009	Shimanami S.B.	22-Jun-12		18.00		Far Eastern interests	Unknown	Mitsui Warehouse C	io. Ja
9	Bulk	Sanko	Titan	52,514	2006	Tsuneishi Cebu	22-Jun-12		18.00		Undisclosed interests	Unknown	Sanko S.S.	Ja
10	Bulk	Feqqi	es	68,744	1989	Hyundai H.I.	21-Jun-12		4.40		Chinese interests	China P.R.	Nautilus Marine	Gr
11	Bulk	Capst	one	75,585	2000	Mitsui SB	20-Jun-12		14.00		Clients of Cyprus Maritin	Chine D.P.	Nippon Yusen Kaisr	a Ja
12	Bulk	Energ	y Angel	17,697	1998	Mitsui SB Chia Kunahima	19-Jun-12		13.00		Uninese interests	Unina P.R.	wond Manne Co.	Ja
10	DUIK	Auanu	Tianiin	76,635	2003	Sasaba H I	15-Jun-12		22.00		Undisclosed interests	Unknown	Earance Shipping	Ja
15	Bulk	Dacific		27,860	1995	Kanasashi K K	15-Jun-12		8.00		Undisclosed interests	Linknown	ID Shinning	De
16	Bulk	Kun I	un Shan	56,233	1976	Sumitomo H I	14-lun-12		0.00		Chinese interests	China P R	Unknown Chinese	Ch
17	Bulk	Violet		50.326	2001	Kawasaki S.B.	14-Jun-12		15.40		Undisclosed interests	Unknown	Orient Marine Co.	Ja
18	Bulk	Hespe	eria	13,565	1991	Rauma-Repola OY	13-Jun-12		4.00		Russian interests	Russia	ESL Shipping Ov	Fir
19	Bulk	Megh	na Pride	48,139	1997	Stocznia Gdansk	11-Jun-12		10.00		European interests	Unknown	Silvia Ship	Ba
20	Bulk	Road	Runner	147,048	1993	Unknown Yard	08-Jun-12		9.55		Clients of Sea Lion Mari	ne Unknown	Primal Shipmngmnt	Gr
21	Bulk	Vera I		28,025	1992	Unknown Yard	08-Jun-12		4.60		Turkish interests	Turkey	Victoria Oceanway	Gr
22	Bulk	Susak	ti Wing	31,802	1997	Hakodate Dock	08-Jun-12		7.00		Chinese interests	China P.R.	Nippon Yusen Kaish	na Ja
23	Bulk	Nikola	05	34,544	1984	Mitsubishi H.I.	06-Jun-12		3.20		Syrian interests	Syria	JME Navigation SA	Gr
24	Bulk	Ocear	n Trader	39,804	1987	Hanjin H.I.	31-May-12		4.20		Hong Kong interests	Hong Kong	STX Pan Ocean	So
25	Bulk	Nena	<u>C.</u>	43,188	1994	Hyundai H.I.	25-May-12		9.00		European interests	Unknown	Fairsky Shpg & Trdg	) Gr
26	Bulk	Eastq	ate	27,877	1990	Kanasashi K.K.	24-May-12		5.70		Ukrainian interests	Ukraine	Zodiac Maritime Agy	/. Isr
27	Bulk	Solar.	Asia	46,658	1998	Mitsui SB	24-May-12		12.50		Chinese interests	Unknown	Sojitz Marine	Ja
28	Bulk	Xiao >	liao	76,098	2011	Hudong Zhonghua	24-May-12		24.00		Chinese interests	China P.R.	East Sunrise Group	Ch
29	Bulk	Atlant		27,797	1998	Naikai S.B.	21-May-12		8.30		Chinese interests	China P.R.	B. Schulte (China)	Ch
24	Duik	Nana		52,489	2005	I suneisni Gebu	10-May-12		19.80		Utelies intersets	i inailand	Snikisnima Kisen	Ja
20	Bulk	Anolle	<u>M.</u>	42,975	1994	Neikei S.B.	10-May-12		9.00		Lindisclosed interacts	Linknows	Pairsky Snpg & 1rdg Salin Marina	y Gr
32	Duik	Mpolic		21,812	1990	Individi 3.D.	11-way-12		0.00		ondisclosed interests	UNKNOWN	Sejin Manne	30
						III								)

Screen Shot 12 - Creating a Size & Age Analysis

This shows the Size & Age Analysis box selected from the Analysis menu, and the options the user can select to customize the size and age table.



# Screen Shot 13 – Creating a Top Table

This shows a Top Flags' selected from the Analysis menu.

-										- P	×
$\leftarrow$	🩆 http://www.clar	ksons.ne	t/wfr/register/Default.aspx		,×ס≊ + Q	🎒 Register - Clari	ksons W × BBB BBC Sport - London 2012	2 <i>i</i> Clarkson Resea	rch Service	លជ	3 🕸 (
										<u>Admin  </u> L	oqout
	Clarks	ons	World Fleet Register							Ju	aly 2012
	O Home @		SI World Fleet Register - Top 10 Fla	in States			-	Ì			
Status: 🗹 Fle	eet 🔲 Orderbook 🔲 (	Anal	vsis Menu	954465	Export to Excel	Print		Analysis: 📰	📧 Options: 🔛	Ą	
-		Channe	0 Too 5 0 Too 10 0 Too 25 0 Too	50					_	_	
Databases	Use:	Show.	() Top 3 () Top 10 () Top 23 () Top	000					Regulatory, O	wnership	Shipbu
• Vessels	Flag State							No Cargo Barrels N	Owner Cor	npany	Hul
Owners	🔿 Owner Groups 🔘		Top 10 Flag States	from your Databa	se Selection.		Fleet Profile Tables	Coating Tank In	Flag State		🗹 Buil
O Builders	🔿 Class Society 🛛 🔘						Size and Age Table     Size and Age Table	M SBT Segregated	🔲 Owner Nat	ionali	Buil
O S&P	🔍 Nationality 🛛 🔘		Flag State		Magazala	Total OT	Fleet Summary	( 🔲 Tanks No	Class Soc		Cor
O Reports	🔿 Ship Types 🛛 🔘		Flag State		Vessels	Total GT		More	More		More
•		1	Panama		121	19,137,220	Teo Tebles				
Row	Vessel Name	2	Marshall Is.		81	13,000,861	Top Tables	Builder Name		Hull Type	e
1	A Elephant	3	Liberia		71	11,258,499	Flags     Class Societies	Daewoo		D/Hull	
2	Abgaig	4	Greece		54	8.553.764	<u>Owners</u>	Samsung H.I.		D/Hull	
3	Achilleas		Here Press			0,000,101	Owners Nationality     Owner Groups	Universal S.B.		D/Hull	
4	Adventure	5	Hong Kong		55	0,350,100	Builders     Ruilders	Samsung H.I.		D/Hull	
6	Al Jabriyan II	6	Singapore		49	7,880,976	- Builders Countries	Deewoo		D/Hull	
7	Al Salheia	7	Bahamas		41	6,571,272		Hyundai H.I.		D/Hull	
8	Al Salmi	8	Malta		24	3,828,124		Daewoo		D/Hull	
9	Al Sheqaya	9	Ching P.B.		15	2 343 256		Hyundai H.I.		D/Hull	
10	Alba	40	Ennes			2,024,252		Hyundai H.I.		S/Skin	
11	Albutain Star	10	France		14	2,204,000		Uaewoo Ubiyorgal S B		D/Hull	
12	Alfa Glory		Others		76	12, 176, 793		Samsung H.I.		D/Hull	
14	Algarve		Total		599	95,335,304		Daewoo		D/Hull	
15	Almizan Star	@ Clark	son Research Services Limited 2012					Daewoo		D/Hull	
16	Alphard Star	e olan						Odense Lindo		S/Skin	
17	Alrehab	C	lose					<u>LHL</u>		D/Hull	
10	Alsace Altair Trader							Mitsui SB		D/Hull	
20	Amantea							Samsung H.I.		D/Hull	
21	Amity Star							Hitachi Zosen		D/Hull	
22	Amphitrite							Daewoo		D/Hull	
23	Andromeda							Daewoo		D/Hull	
24	Andromeda Glory							Daewoo		D/Hull	
26	Anne							Hyundai H.I.		S/Skin	
27	Antarctica							Hyundai H.I.		D/Hull	
28	Antares Star							Daewoo		D/Hull	
29	Antares Voyager							Daewoo		D/Hull	
30	Antonis Antonis I. Angeliago							Samsung H.I.		D/Hull	
32	Anollonia							Samsung H I		D/Hull	
	234567								599	items in 19 i	Dages
		dialogs	/Analysis.aspx				.:				

#### Screen Shot 14 – Extracting A Timeseries

In the Timeseries section the user can make use of the available options to refine the generation of timeseries. Here the user has selected 'Fleet' checkbox in the Section area, 'Containerships' in the Vessel Type area, and EU-27 as Owner Nationality in the Data Type area. Upon clicking 'Get Timeseries' the user is presented with a list of available timeseries in the Select Timeseries Fleet area, each in this example a timeseries of the containership fleet of an EU-27 owner country. Each of these can be selected along with a unit type and output options to display, chart or export the relevant timeseries.

essel Type:	Data Type:	Sel	ect Timeseries Fleet			July 2012	Unit Type:	Output Option:
Bulkers       Containerships       MPP       Ro-Ro       General Cargo       Parcel Tankers       Spec Tankers       Dregers       LNG       PCC       Reefers       Urishore       Dregers       Truise       Ferries       Oth kon Cargo       /essel Size Filter:       (A)	Starts © Contains Get Timeseines Please expand the list below for more detail: Flag Owner Nationality Africa/ Middle East/ S Asia Asia/Pacific UL-27 Non EU Europe North America Uther America Uther America Uther America Unknown Class Builder Country Fleet Total		Germany Denmark Greece Italy France Cyprus Netherlands Belgium United Kingdom Spain Poland Portugal Romania Estonia	Owner Nationality           Owner Nationality	1,942 259 283 186 99 24 92 24 92 24 92 24 92 24 92 24 92 24 77 6 22 77 6	60.57 14.57 12.16 10.96 6.02 0.91 0.05 0.03 0.07 0.04 0.04 0.04 0.03	GT million     GUT million     GGT million     GGT million     GGT million     Age     Teu thousand     Show:     all Records     Top 5 Records     Top 10 Records     Top 25 Records     Top 50 Records	Counterly Monthly View Data Cuck Chart Excel Date range Start End End Cuck Chart End End Cuck Chart End Cuck Chart End End End End End End End End End End
			Finland Bulgaria Lithuania Ireland Gibrattar	Owner Nationality       Owner Nationality       Owner Nationality       Owner Nationality       Owner Nationality	2 2 2 2 2	0.02		

#### Screen Shot 15 – The Publications Screen

The Publications screen provides the user with access to latest and archive copies of selected CRSL fleet periodicals and vessel registers.



#### **Appendix 2: A to Z of World Fleet Register Fields**

The full A to Z list of fields available on the World Fleet Register is listed below. In order to access this from the Fleet Register screen the user can click on 'More...' in the Vessel Characteristics area and select 'Alphabetical Order' in the 'Groups' area of the 'Choose Column box.

12m Trailer Capacity 40 ft Holds Ind 40 ft Holds No Age AHW Line Pull Air Circuits per Hour Air Draft From Keel Air Draft From Water Line (m) Alternative Dwt Alternative Name Ammonia (Ind) Anchor Legs Australia Fitted Ind Automatic Ullaging Ind Auxiliary Engine 1 Bore Mm Auxiliary Engine 1 Cycle Auxiliary Engine 1 Cylinders Auxiliary Engine 1 Designer Auxiliary Engine 1 Fuel Type Auxiliary Engine 1 HP Total Auxiliary Engine 1 KW Total Auxiliary Engine 1 Model Auxiliary Engine 1 Number Auxiliary Engine 1 RPM Max Auxiliary Engine 1 Series Auxiliary Engine 1 Stroke Mm Auxiliary Engine 1 Type Auxiliary Engine 2 Bore Mm Auxiliary Engine 2 Cycle Auxiliary Engine 2 Cylinders Auxiliary Engine 2 Designer Auxiliary Engine 2 Fuel Type Auxiliary Engine 2 HP Total Auxiliary Engine 2 KW Total Auxiliary Engine 2 Model Auxiliary Engine 2 Number Auxiliary Engine 2 RPM Max Auxiliary Engine 2 Series Auxiliary Engine 2 Stroke Mm Auxiliary Engine 2 Type Auxiliary Engine 3 Bore Mm Auxiliary Engine 3 Cycle Auxiliary Engine 3 Cylinders Auxiliary Engine 3 Designer Auxiliary Engine 3 Fuel Type

Auxiliary Engine 3 HP Total Auxiliary Engine 3 KW Total Auxiliary Engine 3 Model Auxiliary Engine 3 Number Auxiliary Engine 3 RPM Max Auxiliary Engine 3 Series Auxiliary Engine 3 Stroke Mm Auxiliary Engine 3 Type Auxiliary Engine 4 Bore Mm Auxiliary Engine 4 Cycle Auxiliary Engine 4 Cylinders Auxiliary Engine 4 Designer Auxiliary Engine 4 Fuel Type Auxiliary Engine 4 HP Total Auxiliary Engine 4 KW Total Auxiliary Engine 4 Model Auxiliary Engine 4 Number Auxiliary Engine 4 RPM Max Auxiliary Engine 4 Series Auxiliary Engine 4 Stroke Mm Auxiliary Engine 4 Type Auxiliary Engine Cap. Kw Total Auxiliary Engine Number Auxiliary Engine SFOC g/kwh Auxiliary Engine(s) HP Auxiliary Engine(s) KW **Azimuth Details** Bale Capacity (cu m) Ballast Cap (t) Barge Loading System Details Barge Loading System Lifting Cap. (t) Beam (m) Berths Berths No Bollard Pull (t) Booster Pump Capacity (Kw) **Booster Pump Details** Bow Loading Ind Bow To Centre Manifold 1 Bow To Centre Manifold 2 Bow To Centre Manifold 3 Box Hold Ind **Bridge Position Ind** Bucket (cu m) Bucket Chain Cap. (kw)

**Bucket Chain Details** Bucket Wheel Extended Cap. (cu m) Bucket Wheel Extended Min Bucket Cap. Per Minute Bucket Wheel Normal Min Bucket Cap. Per Minute Bucket Wheel Type Builder Builder Address 1 Builder Address 2 Builder Address 3 Builder City **Builder Country** Builder County/State **Builder Email Address** Builder Fax Number **Builder** Location Builder Name **Builder Postcode Builder Region Builder Status** Builder Tel Number **Builder Website** Builder Yard Location Built **Built Date** Bulk Tanks Make Bulk Tanks No **Buyer Country Buvers** BV Number Call Sign Cap Grade Condition Capacity (cu ft) Capacity (cu m) Captured Ind Cargo (Ind) Cargo Barrels No Cargo Cap (t) Cargo Cap cu ft Est (Ind) Cargo Cap cu m Est (Ind) Cargo Connection 1 Size Cargo Connection 2 Size Cargo Connection 3 Size Cargo Connection 4 Size Cargo Connection 5 Size Cargo Connections 1 No Cargo Connections 2 No Cargo Connections 3 No Cargo Connections 4 No Cargo Connections 5 No

Cargo Containment System Cargo Draft (m) Cargo Fuel Cap (cu m) Cargo Manifolds Cargo Reheater Cargo Segregations No Cargo Type 1 Cargo Type 2 Cargo Type 3 Cargo Type Ind Casualty Number **CBT** Clean Ballast Tanks Centre Line Bulkhead Ind Centre Tanks Cap Centre Tanks Ind Centre Tanks No Centre Tanks Specific Grav Max Centre Tanks Strength Ind CGT Class At Incident Class Soc **Class Soc Extension Details** Closed Loading Ind CO2 Fitted Ind Coated Epoxy Cap (cu m) Coated Epoxy Manufacturer Coated Marineline Cap (cu m) Coated Marineline Manufacturer Coated Marineline Tanks Ind Coated Poly Cap (cu m) Coated Poly Manufacturer Coated Zinc Cap (cu m) Coated Zinc Manufacturer Coating Tank Ind Cofr Certificate Ind Combined Gear 1 Combined Gear 2 Compartments No Compression Units No ConBulk Connection Type Consumption (tpd) Contract Date Contract Date Ind Coupling System Type Crew Members At Incident Crude Oil Washing Ind Crude Production Cap bpd Crude Storage Cap bbls Currency Currency (NB)

Cutter Capacity (Kw) **Cutter Details** Deballast Cap (t hr) Deck Area (sq m) Deck Breadth Deck Cargo Deck Cargo (Ind) Deck Cargo Capacity (cu m) Deck Cargo Height (m) Deck Height Max (m) Deck Height Min (m) Deck Length m Deck Strength (sq m t) Deck Tanks Cap (cu m) Deck Tanks for Purging Deck Tanks Ind Deck Tanks No Deck Timber Loading (Ind) Deck Timber Loading (m) Deck To Manifold Centre (m) Decks No Demo \$/LDT Demo Buyer Demo Date Demo Location Depth Moulded (m) Design Criteria Design Life Different Temps No Discharge Pipe Diameter (mm) Discharge Pipe No Discharge Pump Cap. (Kw) **Discharge Pump Details** Discharge Rate 1 (cu m hr) Discharge Rate 2 (cu m hr) Discharge Rate At Metres Head Divided Hatches (Ind) Draft Unloaded (m) Draught (m) Dredge Pump Cap. (Kw) **Dredge Pump Details** Dredging Draft (m) Drill Water Cap (cu m) Driver Capacity Dry Bulk Cap (cu m) Dry Docks No Dwt Dwt per TEU **Dynamic Positioning Class Dynamic Positioning Details** Dynamic Tracking Details

Dynamic Tracking Ind En. Bloc. En. Bloc. No. Engine (Propulsion) Number Enhanced Survey (Ind) Epoxy Tank (Ind) Ex Name Extended Dredging Depth (m) FEU Max In Holds FEU Max On Deck FEU Total Cap Fire Fighting Class Fire Foam Cap (cu m hr) Fire Foam No Fire Foam Tank Cap (cu m) Fire Monitor Cap (cu m hr) Fire Monitor No First Delivery Year Fixed Cleaning 1 Fixed Cleaning 2 Fixed Cleaning 3 Flag At Incident Flag State Freed Date Freed Ind Fresh Water Generation Ind Fuel Type Gas Connections 1 No Gas Connections 1 Size Gas Connections 2 No Gas Connections 2 Size Gas Connections 3 No Gas Connections 3 Size Gas Connections 4 No Gas Connections 4 Size Gas Flange Type Gas Free Ind Gear (Ind) Gear 1 Make Gear 1 No Gear 1 Outreach (m) Gear 1 SWL (t) Gear 1 Type Gear 2 Make Gear 2 No Gear 2 Outreach (m) Gear 2 SWL (t) Gear 2 Type Gear 3 Make Gear 3 No Gear 3 Outreach (m)

Gear 3 SWL (t) Gear 3 Type Gear 4 Make Gear 4 No Gear 4 Outreach (m) Gear 4 SWL (t) Gear 4 Type Gear Summary Grab 1 Cap (t) Grab 2 Cap (t) Grab Backhoe Cap. (Kw) Grab Backhoe Details Grab Capacity (cu m) Grabs (Ind) Grabs No Grain Capacity (cu m) Great Lakes Fitted Great Lakes Only Group Owner GT Gt Hatch Description Hatch Grating Type Hatch Manufacturer Hatch Max Length (m) Hatch Max Width (m) Hatch Operation (Ind) Hatches Total No Hatchless Holds (Ind) Hatchless Holds No Heat Exchangers (Ind) Heat Exchangers Material Heat Exchangers Max Temp (celcius) Heat Exchangers Type Heated (Ind) Heating Coils (Ind) Heating Coils Material Heating Coils Max Temp (celcius) Heating Coils Position Heating Ducts Ind Heating Ducts Max Temp Heating Ducts Position Heavy Lift (Ind) Heliport Ind High Car Space % High Level Alarms Ind Hold Temp Max (celcius) Hold Temp Min (celcius) Holds Total No Home Port Homogeneous TEU

Hopper Capacity (cu m) Hopper Top Coaming Cap. (cu m) Hopper Top Overflow Cap. (cu m) Hull No Hull Type Hydrostatic Balancing Ind Ice Class (Ind) Ice Class Equivalent Ice Notation IMO Class 1 (Ind) IMO Class 2 (Ind) IMO Class 3 (Ind) IMO Number Inboard Pump Cap. (Kw) Inboard Pump Details Incident Date Incident Status Inert Gas Ind Inert Gas Storage (Ind) Inland Tonnage Tonnes Insulated Cap (cu m) International Load Line (m) Jet Pump Cap. Kw Jet Pump Details Keel Laid Date Lakes Dwt 26 ft Draft Lane Height (m) Lane Length (m) Lane Width (m) Launch Date LBP (m) LDT Liftable Decks Liquid Connections 1 No Liquid Connections 1 Size Liquid Connections 2 Liquid Connections 2 Size Liquid Connections 3 Liquid Connections 3 Size Liquid Connections 4 Liquid Connections 4 Size Liquid Flange Type Liquid Mud Cap (cu m) LOA (m) Log fitted (Ind) Main Engine 1 Fuel Type Main Engine 2 Fuel Type Main Engine 3 Fuel Type Main Engine SFOC g/kwh Main Power Unit 2 Bore Mm Main Power Unit 2 Cycle

Main Power Unit 2 Cylinder No Main Power Unit 2 Designer Main Power Unit 2 HP Main Power Unit 2 KW Main Power Unit 2 Model Main Power Unit 2 No Main Power Unit 2 RPM Main Power Unit 2 Stroke Mm Main Power Unit 2 Type Main Power Unit 3 Bore Mm Main Power Unit 3 Cycle Main Power Unit 3 Cylinder No Main Power Unit 3 Designer Main Power Unit 3 HP Main Power Unit 3 KW Main Power Unit 3 Model Main Power Unit 3 No Main Power Unit 3 RPM Main Power Unit 3 Stroke Mm Main Power Unit 3 Type Main Power Unit Bore Mm Main Power Unit Cycle Main Power Unit Cylinder No Main Power Unit Designer Main Power Unit Designer Group Main Power Unit HP Main Power Unit KW Main Power Unit Model Main Power Unit Number Main Power Unit RPM Main Power Unit Series Main Power Unit Stroke Mm Main Power Unit Type Main Propulsion Type Manager Country Manager Name Manifold Height Above Waterline (m) Manifold To Rail Distance (m) Manoeuvring Details Maritime Mobile Service Identity (MMSI) No MARPOL (Ind) Max Cgt Output Max Cgt Output Year Max Dwt Output Max Dwt Output Year Max TEU in Holds Max TEU on Deck Max TEU Tiers on Deck Month Built Mooring Equipment 1 No Mooring Equipment 1 Type

Mooring Equipment 2 No Mooring Equipment 2 Type Mooring Equipment 3 No Mooring Equipment 3 Type Name At Incident Name at Sale No Employees Contracted No Employees Permanent Normal Dredging Depth (m) NT Number of Ramps Number of Screws Number of Thrusters Official Number **Oil Recovery Details** Opa 90 Approved Ind Opa 90 Design Ind Operating Depth Max (m) Operator Other Cargo Units Other Cargo Units (Ind) Owner Address 1 **Owner Address 2** Owner Address 3 **Owner At Incident Owner** City **Owner Company** Owner Country **Owner Country Owner County/State Owner Email Address** Owner Fax Number Owner Name Long **Owner** Postcode Owner Tel Number **Owner Website** Pallets Panama NT Passenger Cabins Passengers Passengers Deck Poly Tank (Ind) Port of Registry Portable Cleaning 1 Portable Cleaning 2 Portable Container Guides (Ind) Position Of Turret Post Panamax Potable Water Cap (cu m) Power Type Pressurized Discharge (Ind)

Pressurized Loading (Ind) Price (NB) Price (Sale) Propulsion Dredging Cap. Kw Total Propulsion Dredging Type Propulsion Free Sailing Cap. Kw Total Propulsion Free Sailing Type Propulsion Power HP Propulsion Power KW Propulsor 1 Designer Propulsor 1 Designer Group Propulsor 1 Diameter Propulsor 1 Material Propulsor 1 Model Propulsor 1 Motor Current Type Propulsor 1 Motor Designer Propulsor 1 Motor Designer Group Propulsor 1 Motor Electrical Phase Propulsor 1 Motor Hertz Range Propulsor 1 Motor KVA Propulsor 1 Motor KW Total Propulsor 1 Motor Model Propulsor 1 Motor Number Propulsor 1 Motor Volts Propulsor 1 Number Propulsor 1 Pitch **Propulsor 1 Position** Propulsor 1 Power Type Propulsor 1 RPM Propulsor 1 Type Propulsor 2 Designer Propulsor 2 Designer Group Propulsor 2 Diameter Propulsor 2 Material Propulsor 2 Model Propulsor 2 Motor Current Type Propulsor 2 Motor Designer Propulsor 2 Motor Designer Group Propulsor 2 Motor Electrical Phase Propulsor 2 Motor Hertz Range Propulsor 2 Motor KVA Propulsor 2 Motor KW Total Propulsor 2 Motor Model Propulsor 2 Motor Number Propulsor 2 Motor Volts Propulsor 2 Number Propulsor 2 Pitch **Propulsor 2 Position** Propulsor 2 Power Type Propulsor 2 RPM Propulsor 2 Type

Propulsor 3 Designer Propulsor 3 Designer Group Propulsor 3 Diameter Propulsor 3 Material Propulsor 3 Model Propulsor 3 Motor Current Type Propulsor 3 Motor Designer Propulsor 3 Motor Designer Group Propulsor 3 Motor Electrical Phase Propulsor 3 Motor Hertz Range Propulsor 3 Motor KVA Propulsor 3 Motor KW Total Propulsor 3 Motor Model Propulsor 3 Motor Number Propulsor 3 Motor Volts Propulsor 3 Number Propulsor 3 Pitch **Propulsor 3 Position** Propulsor 3 Power Type Propulsor 3 RPM Propulsor 3 Type Propulsor 4 Designer Propulsor 4 Designer Group Propulsor 4 Diameter Propulsor 4 Material Propulsor 4 Model Propulsor 4 Motor Current Type Propulsor 4 Motor Designer Propulsor 4 Motor Designer Group Propulsor 4 Motor Electrical Phase Propulsor 4 Motor Hertz Range Propulsor 4 Motor KVA Propulsor 4 Motor KW Total Propulsor 4 Motor Model Propulsor 4 Motor Number Propulsor 4 Motor Volts Propulsor 4 Number Propulsor 4 Pitch **Propulsor 4 Position** Propulsor 4 Power Type Propulsor 4 RPM Propulsor 4 Type Propulsor Number Pump 1 Type Pump 2 Type Pump 3 Type Pump Cap (cu m) Pump Line Material Pumprooms Pumps Ballast No Pumps Booster Make

Pumps Booster No Pumps Centrifugal Make Pumps Centrifugal No Pumps Deepwell Make Pumps Deepwell No Pumps Independent Make Pumps Independent No Pumps Portable Make Pumps Portable No Pumps Reciprocal Make Pumps Reciprocal No Pumps Rotary Make Pumps Rotary No Pumps Screw Make Pumps Screw No Pumps Submerged Make Pumps Submerged No Pumps Total No Ramp 1 Height (m) Ramp 1 Length (m) Ramp 1 Max Load (t) Ramp 1 No Ramp 1 Position Ramp 1 Type Ramp 1 Width (m) Ramp 2 Height (m) Ramp 2 Length (m) Ramp 2 Max Load (t) Ramp 2 No Ramp 2 Position Ramp 2 Type Ramp 2 Width (m) Ramp 3 Height (m) Ramp 3 Length (m) Ramp 3 Max Load (t) Ramp 3 No Ramp 3 Position Ramp 3 Type Ramp 3 Width (m) Ransom Usd M Reefer Plugs Total No Reefer Socket Type Reefer TEU Capacity Refrigerant Type **Region At Incident** Registered Owner **Registered Owner Country** Reliquifaction Rating (kcal hr) Reliquifaction Units No Riser 1 No Riser 1 Type

Riser 2 No Riser 2 Type Riser 3 No Riser 3 Type Sale Date Satcom (Ind) Satcom Id Satcom Type Satnav (Ind) Satnav Type SBT Segregated Ballast Tanks Self Unloader (Ind) Self Unloader Cap (t hr) Self Unloader Type Seller Country Sellers Separately Insulated Compartments Shaft Generator (kw) Side Winch 2 Cap. (t) Side Winch Cap. (t) Sidedoors No Sideports No Sister Vessel Code Slop Tanks Slop Tanks Cap Solas Cert Ind Specialist Cargo Cap (cu m) Specialist Cargo Type Speed (knots) Speed Unloaded Stainless Tank (Ind) Stainless Tanks Cap Stainless Tanks Grade Standard Type Status Stern Discharge Ind Stern Discharge Size 1 Stern Discharge Size 2 Strengthened for Heavy Cargo Strengthened for Ore Stripping Ind Suction Pipe (mm) Suction Pipe No Suction Pump Cap. (Kw) Suction Pump No Suez NT Survivors No Tank 1 No Tank 2 No Tank Material Tank Pressure (kgf sq m)

- Tank Temp (celcius) Tanks No TEU TEU Max Row Athwart Total Auxiliary Engine SFOC g/kWh Total Cargo Decks No Total Generated Power HP Total Generated Power KW Total Installed Diesel Cap. (Kw) Total Main Engine SFOC g/kWh TPC Underwater Pump Cap. (Kw) Underwater Pump Details Unloading System Ind Vacuum Draw Percent Vapour Return Ashore Ind Vapour Return Line (Ind) Vehicle Capacity Vehicle Capacity Vehicle Decks No Ventilator Type Vessel Name
- Vessel Name Date Vessel Type Vessel Type Vessel Type Group Voc Capacity Voc Treatment Wing Tanks Wing Tanks (Ind) Wing Tanks Bleed (Ind) Wing Tanks Cap (cu m) Wing Tanks Specific Grav Max Wing Tanks Strength Ind Yard Breadth Maximum (m) Yard Capacity CGT Yard Crane Maximum SWL Yard Dwt Maximum Yard Gt Maximum Yard Length Maximum (m) Year Built Year Founded Year Rebuilt Convert Zinc Tank (Ind)

#### **Appendix 3: Publications Directory**

The publications available through the World Fleet Register are listed and described below.

World Fleet Monitor *The flagship monthly publication providing updates on the entire world fleet, including analysis by flag, classification, ownership and type.* 

World Shipyard Monitor The leading monthly shipbuilding report providing details of the orderbook, contracting and deliveries at over 600 shipyards by ship type and owner.

Shipyard Orderbook Monitor Monthly listing of the entire world orderbook by shipyard and country.

Shiptype Orderbook Monitor Monthly listing of the entire world orderbook by ship type.

Shipowner Orderbook Monitor Monthly listing of the entire world orderbook by shipowner.

The Bulk Carrier Register The authoritative annual register of bulk carriers, their characteristics and their owners, including a wide range of statistical tables.

The Chemical Tanker Register The authoritative annual register of chemical tankers, their characteristics and their owners, including a wide range of statistical tables.

The Containership Register The authoritative annual register of containerships, their characteristics and their owners, including a wide range of statistical tables.

The Gas Register The authoritative annual register of gas carriers, their characteristics and their owners, including a wide range of statistical tables.

The Reefer Register The authoritative annual register of reeferships, their characteristics and their owners, including a wide range of statistical tables.

The Tanker Register The authoritative annual register of tankers, their characteristics and their owners, including a wide range of statistical tables.