CAMPAR User Guide

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Introduction

Computer-Aided Marine Performance Analysis Report (CAMPAR) is an integrated component of Service Interlink. In order to access CAMPAR, log into the Service Interlink site with a valid CWS Id and click on the CAMPAR link located in the main menu.

CATERPILLAR	Marine Power Systems - Service Interlink	
	Search Add Vessel Administration Help CAMPAR Tools Switch Market	

CAMPAR is designed to provide Caterpillar Certified Marine Analysts with the ability to:

- Formulate actual and factory-specified test results for marine propulsion engines and transmissions.
- Produce a graphic representation of the actual and factory-specified fuel rate, boost pressure and exhaust temperature results for propulsion systems utilizing fixed pitch propellers under normal operating conditions.
- Make consistent interpretations and recommendations from the test results, for marine propulsion engines and transmissions.
- Provide versatility for the analysis of Electronic Control Module equipped Caterpillar engines, as well as the ability to plot the engine fuel rate for comparison to TMI specifications for mechanically governed engines.

CAMPAR contains a Caterpillar specification database for the most common engine models and ratings. It also provides the analyst with the capability to formulate specification data for unique and non-current engine models and ratings.

Acronyms

The following are the common terms that are used within the scope of this document.

Acronym	Description
CAMPAR	Computer-Aided Marine Performance
	Analysis Report
ET	Caterpillar Electronic Technician software
SSD – Now prepared in .TXT format	Steady State Document file (created by ET
	Sea Trial Datalogger). The .TXT format is
	required for CAMPAR.
TXT	General Information Document file (created
	by ET Sea Trial Datalogger)
TMI	Technical Marketing Information that is
	imported into the CAMPAR analysis report
	process.

Cat Dealer CAMPAR Information and Training

Additional information and training course updates can be found on the <u>Cat Dealer Sea Trial &</u> <u>Campar</u> page.

Contact Support

Please refer to this user guide for general program usage instructions. For additional assistance, you may contact the support team as follows.

Hotline Hours

Monday through Friday 6:00 AM to 7:00 PM - United States Central Standard Time

Telephone Numbers

800-901-8777 (United States only) 309-266-9749 (From all other locations) 309-263-0127 (FAX)

Internet Email

enginesoftware@catsupport.com

Cat ET Files for CAMPAR Use

The CAMPAR application is compatible with Cat ET v2016C or newer General Information .TXT and Steady State .TXT files (the .SSD will not be imported). It is recommended that the latest version of Cat ET be utilized for all new sea trials.

CAMPAR Entry Point

The radio button selections available on this page serve as the entry point into the CAMPAR process and are defined as follows:

CAMPAR options:	
Add a new Sea Trial in CAMPAR from local CAT ET files View existing analysis or import CAT ET files from Service In	terlink
O Add a new manual sea trial in CAMPAR	
Next	

• *Add a new Sea Trial in CAMPAR from local Cat ET files*. This option allows the user to start a new analysis of sea trial files produced from Caterpillar Electronic Technician. This option assumes the files have not previously been uploaded as Sea Trial attachments in Service Interlink.

• *View existing analysis or import Cat ET files from Service Interlink*. This option allows the user to create a new analysis from Cat ET files previously uploaded. Or, open an existing CAMPAR analysis.

• *Add a new manual sea trial in CAMPAR*. This option allows the user to start a new manual analysis in CAMPAR without the assistance of Cat ET files.

Creating a new analysis by importing ET files

Click on the 'Add a new Sea Trial in CAMPAR from local Cat ET files' radio button on the main menu to add a new analysis using sea trial files produced from Caterpillar Electronic Technician.

Add a New Sea Trial in CAMPAR from Local ET Export Files
Browse to the location of Cat ET files to upload each file type. Cat ET v2016C or newer is supported in English format only. Both the General Information and the Steady State files must be the .TXT format exported from Cat ET.
Select the unit of measure preference for display of the imported Cat ET data and the TMI spec data.
Type a name for the analysis record you are creating with this import process.
Create New Analysis from Cat ET Files
Cat ET General Information Document (TXT) file:
Browse
Cat ET Steady State Document (TXT) file:
Browse
Unit Preference:
Create Analysis

After clicking on the 'Add a New Trial in CAMPAR from Local ET Export files' radio button, browse to locate and select the desired General Information and Steady State Data files. Select a unit preference. Provide a unique Analysis name and click the "Create Analysis" button.

The 'Add a New Sea Trial in CAMPAR from local ET Files' page will display with the search field for the Serial Number defaulted to the Serial Number specified in the files imported. To search on additional fields, the Advanced Search checkbox enables searching on Serial Number, Vessel Name, Hull ID, and IMO number. The original Serial Number, Vessel Name, and Hull ID contained in the imported files will be shown as read-only fields to the right of the search fields in a column labeled 'ET Values'.

A list of vessels with matching associated data will appear in the search results grid. To associate a new sea trial analysis to an already created vessel, click on the 'select' link next to the vessel.

CATERPILLAR	LAR Marine Power Systems - Service Interlink									
	Search Add Vessel Adm	inistration What's New	Help CAMPAR Tools Switch Market	Certificate Analyst Help						
Add a New Sea Trial in CAMPAR from Local ET Files										
	e Interlink vessel records for the s r the vessel information to search		ort file (see the ET Values field). The sea trial analysis s	hould be associated to an existing vessel or if necessary, a new vessel						
	Vessel Search Values	ET Values								
Serial Number:	C1Z01446	C1Z01446	Advanced Search							
Vessel Name:		Voyager								
Hull ID:		367309580								
IMO Number:			J							
Search Add New Vessel										
Click Select next to the existing Service Interlink vessel record to associate to the imported sea trial data.										
Showing 1 through 2	Of 2									
Action	Vessel Name	Hull ID	Shipyard Builder	Serial Number(s)						
Select	Voyager	367309580	VARD Brattvaag AS	C1Z01446						
Select	Voyager	367309580	ABG SHIPYARD	C1Z01446						

Once the vessel is selected from the results grid, the General Info page will display. All available data from the selected files will be imported in. If the information was not available in the import process, additional information may need to be manually entered.

NOTE: if multiple serial numbers are used in the analysis, toggle back and forth between the serial numbers to view imported data for each serial number and to manually enter in required data.

	Search Add Vessel Adminis	stration What's New Help CAMPAR	Tools Switch Market Certificate Analyst Help
New Vessel			
vice Interlink requi	res specific information to create a new	w vessel record. This is information that will be avail	lable and can be updated from Service Interlink.
some instances, C/	AMPAR will offer options to customize	e for report purposes. Complete the required fields ar	nd click Add Vessel.
Гуре:	Custom Commercial	▼ Serial Number(s):	C1Z01446
Shipyard:		🕐 🔻 Equipment Type:	Cat Propulsion Engine
Shipyard Model:		Engine Location:	Starboard
sinpyaru mouer.		Engine Location.	Stalboard
Iull ID Number:	367309580		
/essel Name:	Voyager		
MO Number:		Add Vessel	
	IMO Number Not Availa		
	 INIO NUMber Not Available 	able	

In the event the vessel associated with the sea trial analysis is not found in the Service Interlink database, or if you to make a new one, click the 'Add New Vessel' link to add a new vessel.

Vessel Type, Shipyard, Shipyard Model, Hull ID Number, Vessel Name, IMO Number, Serial Number(s), Equipment Type, and Engine Location fields will default to the information contained within the imported Cat ET files. The Serial Number(s), and Engine Location field is not editable.

CATERPILLAR '	Marine Pov	ver Systems - Service	Interlink
	Search Add Vessel Administration What	ts New Help CAMPAR Tools	Switch Market Certificate Analyst Help
Add New Vessel			
Service Interlink requi	res specific information to create a new vessel record.	This is information that will be available ar	nd can be updated from Service Interlink.
In some instances, C	AMPAR will offer options to customize for report purpos	es. Complete the required fields and click	Add Vessel.
Туре:	Custom Commercial 🔹	Serial Number(s):	C1Z01446
Shipyard:	GIBDOCK	Equipment Type:	Cat Propulsion Engine
Shipyard Model:	3412C •	Engine Location:	Starboard
Hull ID Number:	367309580		
Vessel Name:	Voyager		
IMO Number:	2272017	Add Vessel	
	IMO Number Not Available		

Once the required information has been added, click on the 'Add Vessel' button.

Search Add Vessel Administration What's New Help CAMPAR Tools Switch Market Certificate Analyst He Add New Vessel Service Interlink requires specific information to create a new vessel record. This is information that will be available and can be updated from Service Interlink. In some instances, CAMPAR will offer options to customize for report purposes. Complete the required fields and click Add Vessel. Type: Custom Commercial Serial Number(s): C1Z01446 Shipyard: GIBDOCK Equipment Type: Cat Propulsion Engine Shipyard Model: 3412C Engine Location: Starboard Wessel Name: Voyager Work is to custom commercial Cat provide the required fields to custom commercial Cat provide the custom commercial	TERPILLAR	Marine Power Systems - Service Interlink								
Service Interlink requires specific information to create a new vessel record. This is information that will be available and can be updated from Service Interlink. In some instances, CAMPAR will offer options to customize for report purposes. Complete the required fields and click Add Vessel. Type: Custom Commercial Serial Number(s): C1Z01446 Shipyard: GIBDOCK Equipment Type: Cat Propulsion Engine Shipyard Model: 3412C Engine Location: Starboard Hull ID Number: 367309580 Voyager Custom Commercial		Search Add Vessel Adr	ninistration What's	New Help CAMPAR Too	ols Switch Market Certificate Analyst Help					
Type: Custom Commercial Serial Number(s): C1Z01446 Shipyard: GIBDOCK Equipment Type: Cat Propulsion Engine Shipyard Model: 3412C Engine Location: Starboard Hull ID Number: 367309580 Engine Location: Starboard	d New Vessel									
Type: Custom Commercial Serial Number(s): C1Z01446 Shipyard: GIBDOCK Equipment Type: Cat Propulsion Engine Shipyard Model: 3412C Engine Location: Starboard Hull ID Number: 367309580 Voyager	vice Interlink requir	es specific information to create	a new vessel record. Thi	s is information that will be available	and can be updated from Service Interlink.					
Shipyard: GIBDOCK Equipment Type: Cat Propulsion Engine Shipyard Model: 3412C Engine Location: Starboard Hull ID Number: 367309580 Voyager	ome instances, CA	MPAR will offer options to custo	mize for report purposes	Complete the required fields and cli	ick Add Vessel.					
Shipyard: GIBDOCK Equipment Type: Cat Propulsion Engine Shipyard Model: 3412C Engine Location: Starboard Hull ID Number: 367309580 Voyager Unit of the starboard	/pe:	Custom Commercial	· · · · · · · · · · · · · · · · · · ·	Serial Number(s):	C1Z01446					
Hull ID Number: 367309580 Vessel Name: Voyager		GIBDOCK		Equipment Type:	Cat Propulsion Engine 🔹					
Vessel Name: Voyager	hipyard Model:	3412C	Y	Engine Location:	Starboard					
	ull ID Number:	367309580								
	essel Name:	Voyager								
IMO Number: 22/2017 Add Additional Serial Numbers Continue Analysis (Attach Ve	10 Number:	2272017		Add Additional Serial Numb	Continue Analysis (Attach Vessel)					
IMO Number Not Available		IMO Number Not A	Available							

Once a new vessel has been created, additional serial numbers may be added or the sea trial analysis can begin. Information will be imported into the 'General Info', 'Pre Test', 'Sea Trial Data Selection', 'PAR Test Data', 'Fuel Rate & Boost Data', 'Fuel Rate Curve'. 'Boost Curve', 'Fixed Speed Data' pages. Through the collection of all of this data, applicable fuel and boost graphs, as well as a final report will be generated. A formal analysis report will be available when the analysis is complete.

Manual Entry Process

To add a new Sea Trial manually, select the 'Add a new manual sea trial in CAMPAR' option from the CAMPAR home page

CATERPILLAR	Marine Power Systems - Service Interlink
	Search Add Vessel Administration What's New Help CAMPAR Tools Switch Market Certificate Analyst Help
	CAMPAR
CAMPAR User Guide	
What's New for CAM	PAR
	e Cat ET v2016C or newer files in English format only. The manual option can be used to enter sea trial information gathered in unsupported versions of Cat ET. Described below ble for utilizing the CAMPAR tool.
*Add a new	Sea Trial in CAMPAR from local CAT ET files: locate and upload the v2016C or newer General Information . TXT and Steady State . TXT files from a local directory.
	ng analysis or import CAT ET files from Service Interlink: identify vessel stored in Service Interlink, select either the Cat ET files already stored on the vessel Sea Trial Data elect a report already stored in CAMPAR.
*Add a new	manual sea trial in CAMPAR: enter mechanical engine information for analysis. Or, you can manually enter sea trial data when collected from an unsupported version of Cat ET.
being used to	CAMPAR tool relies on data from the TMI sea trial tab to generate its analysis. This TMI sea trial data has been fully populated for Tier 2 / IMOII and newer engines. If CAMPAR is or un a sea trial analysis on a legacy engine, prior to Tier 2, there may be unpopulated specifications which could lead to incomplete reports. If missing data is found on a Tier 2 / er engine, please contact ASC to populate these missing specifications.
CAMPAR options:	
	ial in CAMPAR from local CAT ET files
	vsis or import CAT ET files from Service Interlink I sea trial in CAMPAR
Next	
IE Users: You may ex Managing Compatibili	xperience issues using Internet Explorer if compatibility mode is enabled. If you experience issues using IE, please disable/remove compatibility mode for cat.com based websites:

The Add a New Manual Sea Trial page will display:

CATERPILLAR Marine Power Systems - Service Interlink									
	Search	Add Vessel	Administration	What's New	Help	CAMPAR	Tools	Switch Market	Certificate Analyst Help
Add a New Manual	Sea Trial								
Enter at least one set	ial number	(engine location	can be edited within	the analysis).					
Select the unit of me	asure prefe	erence for display	of the sea trial and	TMI spec data.					
Type a name for the a	analysis re	cord you are crea	ating.						
Serial 1: Serial 2: Unit Preference: Analysis Name:		0 0 • 0							
Create Analysis									

Enter in a valid serial number (or numbers), select a Unit Preference, and provide a unique Analysis Name and click on the 'Create Analysis' button. All vessels with that specific serial number will be shown in the results grid. The options to associate the sea trial with an existing vessel or to create a new vessel is available. Click on the Advanced Search option to broaden the search results.

CATERPILLAR		Marin	ne Power S	ystems - s	Service	nterlink		
	Search Add	Vessel Administration	on What's New	Help CAMP	R Tools	Switch Market	Certificate Analyst He	lp
Add a New Manu	ual Sea Trial							
Search existing S	ervice Interlink vessel	records for the serial num mation to search the Servi	ber found in the imp	ort file (see the ET \	alues field). Th	e sea trial analysi	s should be associated to a	an existing vessel or if necessary, a new vessel
Should be added.	Litter the vesser mon	nation to search the Servi	ce intenink records.					
	Vessel Sea	arch Values	ET Values					
Serial Number:	E3X00202	E3X0	0202	Advanced	Search			
	Search	Add New Vessel						
	Search	Aud IVew Vessel						
Click Select next	to the existing Service	e Interlink vessel record to	associate to the imp	ported sea trial data				
Chaudan dahara	- FOFF							
Showing 1 throu	•							
Action	Vessel Name	Hull ID		Shipyard Builder				Serial Number(s)
Select	D. A Grimm	275049		[Unknown]				E3X00202
Select	D. A Grimm	275049		Campbell Transpo	tation Compan	/		E3X00202
Select	CSE qa	2282017 1105	5.	ARMON VIGO AS	TILLERO			E3x00202, e3x00204
Select	JHW CSE	228 1109		Aabenraa Værft				e3x00202
Select	CSEQA	228 1114		AAROS MARINE	LTD			e3x00202

Click on the 'Select' Link next to the vessel that the analysis should be associated to. In the event the vessel was not found in the Service Interlink database, click the 'Add New Vessel' link to create a new vessel. Once data is entered into the required fields, and an analysis name has been entered, click on the 'Continue to Analysis' button. This will open the General Info page and allow manual entry of data throughout the data collection process. Continue through this help file to review high level description of data entry pages.

CATERPILLAR ®		Marine P	ower Syste	ms - Servic	e Interlink	
	Search Add Vessel	Administration	What's New Help	CAMPAR Too	Is Switch Market Cer	tificate Analyst Help
Add New Vessel						
Service Interlink requi	res specific information to c	reate a new vessel rec	ord. This is information	n <mark>t</mark> hat will be available	and can be updated from Serv	vice Interlink.
In some instances, C	AMPAR will offer options to	customize for report p	urposes. Complete the	required fields and cli	ck Add Vessel.	
Туре:	Production Com	nmercial	Serial Num	ber(s):	E3X00202	
Shipyard:	AB Yachts		Equipment	Туре:	Cat Propulsio	n Engine 🔻
Shipyard Model:	AB 58		Engine Loc	ation:		
Hull ID Number:	3320171054					
Vessel Name:	The Integrity					
IMO Number:				Add Vessel		
	IMO Number	Not Available				

View Existing Sea Trial

To view an existing analysis or import Cat ET files from Service Interlink click on the 'View existing analysis or import Cat ET files from Service Interlink' option on the CAMPAR home page.

CATERPILLAR	Marine Power Systems - Service Interlink
	Search Add Vessel Administration What's New Help CAMPAR Tools Switch Market Certificate Analyst Help
	CAMPAR
CAMPAR User Guide	
What's New for CAMP	AR Contraction of the second se
	: Cat ET v2016C or newer files in English format only. The manual option can be used to enter sea trial information gathered in unsupported versions of Cat ET. Described below le for utilizing the CAMPAR tool.
*Add a new \$	sea Trial in CAMPAR from local CAT ET files: locate and upload the v2016C or newer General Information .TXT and Steady State .TXT files from a local directory.
	g analysis or import CAT ET files from Service Interlink: identify vessel stored in Service Interlink, select either the Cat ET files already stored on the vessel Sea Trial Data ect a report already stored in CAMPAR.
*Add a new r	nanual sea trial in CAMPAR: enter mechanical engine information for analysis. Or, you can manually enter sea trial data when collected from an unsupported version of Cat ET.
being used to	AMPAR tool relies on data from the TMI sea trial tab to generate its analysis. This TMI sea trial data has been fully populated for Tier 2 / IMOII and newer engines. If CAMPAR is run a sea trial analysis on a legacy engine, prior to Tier 2, there may be unpopulated specifications which could lead to incomplete reports. If missing data is found on a Tier 2 / r engine, please contact ASC to populate these missing specifications.
CAMPAR options:	
View existing analy	al in CAMPAR from local CAT ET files sis or import CAT ET files from Service Interlink sea trial in CAMPAR
Next	
IE Users: You may ex Managing Compatibilit	perience issues using Internet Explorer if compatibility mode is enabled. If you experience issues using IE, please disable/remove compatibility mode for cat.com based websites:

When entering the View Existing Analysis page lists of the most recent vessels and the most recent analysis records you have created will appear.

CATERPILL	AR	Mar	ine Power	Systems - Se	ervice Interlink				
	Search Add V	Vessel Administr	ation What's N	ew Help CAMPAR	Tools Switch Market	Certificate Analy	vst Help		
	Analysis or Import ET F								
Search existin	g Service Interlink vessel r	ecords and select the	vessel whose asso	ociated files and analysis y	ou want to view.				
	Vessel Sear	rch Values							
Serial Numb	er:			Advanced Search					
	Samp Day	and Antipital							
	Search Rece	ent Activity							
	5 most recent vessels you								
Action	Vessel Name	Hull ID		Shipyard Build	er		Serial Number	r(s)	
Select	The Integrity	332017	1054	AB Yachts		E3X00202			
Select	CSEQA	228 11	4	AAROS MARI	NE LTD	e3x00202			
Select	JHW CSE	228 11	19	Aabenraa Vær		e3x00202			
Select	CSE qa	228201	7 1105	ARMON VIGO	ASTILLERO		E3x00202, e3>	00204	
Select	Voyager	367309	580	GIBDOCK			C1Z01446		
Showing the	5 most recent analysis' th	at you have modifie	4						
showing the :	s most recent analysis th	lar you have modifie							
				Created Date	Last Modified Date	Sea Trial Date	Finalized Date	Report (PDF)	Submitted By
Action	Analysis Name	Serial Numbers	Engine Hours			Jea mai Date	T manzed Date	incport (i bi)	The second se
Action View Clone	Analysis Name JHW 3-3-2017 1038	Serial Numbers E3X00202	Engine Hours	3/3/2017 10:38:59 AM	3/3/2017 11:02:30 AM	Sea mai Date	T manzed Date	(toport (t b))	V2139S0jw
	A REAL ASSAULT AND A REAL ASSAULT ASSAULT AND A REAL ASSAULT AND A		Engine Hours 0.0019			01-04-2017	T manzed Date		The second se

However, the option to search by serial number only or option to use the Advance Search is available. Once the search criteria is entered, click the Search button. All vessels matching the search criteria entered will be shown in the results grid. Click on the 'Select' link next to the vessel of choice to associate to the analysis record.

	LLAR'	Marine P			
	Search Add V	essel Administration V	Vhat's New Help CAMPAR To	ols Switch Market Certificate Analyst Help	
n erer n					
	ing Analysis or Import ET Fi				
Search exist	ting Service Interlink vessel r	ecords and select the vessel wh	lose associated files and analysis you wan	t to view.	
	Vessel Sean	ch Values			
Serial Nun	mber: SDN00101		Advanced Search		
Vessel Nar					
Hull ID:					
	ber:				
IMO Numb					
IMO Numb	Search Deep	nt Activity			
IMO Numb	Search Rece	nt Activity	<i>k</i> ∕		
		nt Activity	k}		
	Search Rece	nt Activity	ŀ3		
Showing 1	through 10 Of 18 <u>Vessel Name</u>	Hull ID	Shipyard Builder	Serial Number(s)	
Showing 1 Action <u>Select</u>	through 10 Of 18 <u>Vessel Name</u> TEST_VESSEL	Hullid TEST_VESSEL	<u>Shipyard Builder</u> [Unknown]	SDN00101	
Showing 1 Action Select Select	through 10 Of 18 <u>Vessel Name</u> TEST_VESSEL C32 Miami	Hull ID TEST_VESSEL 186	<u>Shipyard Builder</u> [Unknown] John's Shipyard	SDN00101 SDN00101	
Showing 1 Action Select Select Select	through 10 Of 18 <u>Vessel Name</u> TEST_VESSEL C32 Miami C32 Miami	Hull ID TEST_VESSEL 186 186	<u>Shipyard Builder</u> [Unknown] John's Shipyard Andy's Shipyard	SDN00101 SDN00101 SDN00101, AAPortCatProp	
Showing 1 Action Select Select Select Select	through 10 Of 18 Vessel Name TEST_VESSEL C32 Miami C32 Miami C32 Miami	Hull ID TEST_VESSEL 186 186 186	<u>Shipyard Builder</u> [Unknown] John's Shipyard Andy's Shipyard Andy's Shipyard	SDN00101 SDN00101 SDN00101, AAPortCatProp SDN00101	
Showing 1 1 Action Select Select Select Select Select	through 10 Of 18 Vessel Name TEST_VESSEL C32 Miami C32 Miami C32 Miami C32 Miami	Hall ID TEST_VESSEL 186 186 186 186	<u>Shipyard Builder</u> [Unknown] John's Shipyard Andy's Shipyard Andy's Shipyard Andy's Shipyard	SDN00101 SDN00101 SDN00101, AAPortCatProp SDN00101 SDN00101, SDN00103, SDN00100, THX00203	
Showing 1 Action Select Select Select Select	through 10 Of 18 Vessel Name TEST_VESSEL C32 Miami C32 Miami C32 Miami C32 Miami C32 Miami	Hull ID TEST_VESSEL 186 186 186	<u>Shipyard Builder</u> [Unknown] John's Shipyard Andy's Shipyard Andy's Shipyard	SDN00101 SDN00101 SDN00101, AAPortCatProp SDN00101 SDN00101, SDN00103, SDN00100, THX00203 SDN00101, def23456, abd12345	
Showing 1 Action Select Select Select Select Select Select	through 10 Of 18 Vessel Name TEST_VESSEL C32 Miami C32 Miami C32 Miami C32 Miami	Hall ID TEST_VESSEL 186 186 186 186	<u>Shipyard Builder</u> [Unknown] John's Shipyard Andy's Shipyard Andy's Shipyard Andy's Shipyard	SDN00101 SDN00101 SDN00101, AAPortCatProp SDN00101 SDN00101, SDN00103, SDN00100, THX00203	
Showing 1 1 Action Select Select Select Select Select	through 10 Of 18 Vessel Name TEST_VESSEL C32 Miami C32 Miami C32 Miami C32 Miami C32 Miami	Hall ID TEST_VESSEL 186 186 186 186 186 186	Shipyard Builder [Unknown] John's Shipyard Andy's Shipyard Andy's Shipyard Andy's Shipyard Andy's Shipyard	SDN00101 SDN00101 SDN00101, AAPortCatProp SDN00101 SDN00101, SDN00103, SDN00100, THX00203 SDN00101, def23456, abd12345	
Showing 1 n Select Select Select Select Select Select Select Select	through 10 Of 18 Vessel Name TEST_VESSEL C32 Miami C32 Miami C32 Miami C32 Miami C32 Miami C32 Miami	Hull ID TEST_VESSEL 186 186 186 186 186 186 186	Shipyard Builder [Unknown] John's Shipyard Andy's Shipyard Andy's Shipyard Andy's Shipyard Andy's Shipyard Andy's Shipyard	SDN00101 SDN00101 SDN00101, AAPortCatProp SDN00101 SDN00101 SDN00101, SDN00103, SDN00100, THX00203 SDN00101, def23456, abd12345 SDN00101	

Once a vessel is selected you will have an option to either view an existing analysis record, if available. Or, if there are Cat ET files already uploaded for this vessel, you may select applicable files and generate a new analysis record.

If you select an analysis record that you have not created, you will be able to view it in 'read-only' mode. You can clone it if you wish to edit/add information and complete the analysis.

If you select an analysis that you have created you can view it in edit mode unless it has been 'finalized'. Finalized analysis records can be cloned if you wish to edit/add information.

	Marin	ne Power Syste	ms - Servi	ce Interlin	nk				
	Search Add Vessel Administration	n What's New Help	CAMPAR	ools Switch I	Market Certific	ate Analyst Help			
	visis or Import ET Files From Service Interli ce Interlink vessel records and select the vesse Vessel Search Values Search Recent Activity	ink	analysis you want t						
	alysis Click view link to review existing sea tria Vessel: Voyager Hull ID: 367309580 Seri		bers •						*
Action A	nalysis Name Serial Numbers	Engine Hours Create	d Date Last M	odified Date	Sea Trial Date	Finalized Date	Report (PDF) <u>Submitted By</u>	
	rom Service Interlink Select a General Infor Vessel: Voyager Hull ID: 367309580 Seri			trial analysis.					+ //
Select Action	File Name	5	ubmitted By	File Type		Serial Nu	mbers	Sea Trial Date	
U View	C1Z01446_6102016_ETSS_PERF.TXT	⊻ ⊻	<u>/213950iw</u>	Steady State	Document	C1Z0144		06/10/2016	1
	C1Z01446_6102016_ETGI_PERF.TXT	<u>v</u>	/2139S0jw	General Infor	mation File	C1Z0144	8	06/10/2016	

If creating a new analysis, the Unit Preference (English or Metric) and Analysis name is required.

Click the Create Analysis button to generate the new analysis.

Whether selecting an existing analysis or creating a new one, the next page to appear will be the General Information.

General Information

The General Info page is the first page of the analysis record whether creating a new analysis through an import, viewing an existing analysis or entering a manual analysis. In each of the three options, selecting a vessel and/or existing analysis will lead to this page.

The General Info page displays the following vessel information by category: General vessel information, Engine serials number(s) and location, installed transmissions, fuel and water measurements, hull dimensions, marine gear, and propeller information.

In the Vessel Information section displays CAMPAR Report Values on the left, this information is coming from the Cat ET files in most instances. The SI Vessel Values on the right come from the vessel information that is stored in Service Interlink. The left and right arrow buttons between the columns allow updating of either column.

General Info 🖃 Pre Test 👘 Sea Trial Data	Selection PAR Test Data Fuel Rate 8	Boost Data 🧮	Fuel Rate Curve 🗖 Boost Curve 🗣 Wa	rning Summary — Report
- Analysis Info & Legend				Click to Open/Close Section
Analysis Name: JHW 3-3-2017 1038 Creater	d Date: 3/3/2017 10:38:59 AM Vessel Name: T	he Integrity		Clone
😃 Non-Required Missing Data Required I	Missing Data 🚯 Information Tool Tip 📕 Avai	lable Navigation	Unavailable Navigation	
- Spec Data and Report Unit of Measure				Click to Open/Close Section
• English				
Metric				
- Vessel Information				Click to Open/Close Section
	CAMPAR Report Value		SI Vessel Value	
Vessel Name:	The Integrity		The Integrity	
Shipyard:	AB Yachts •		AB Yachts	
Customer:	CSE QA			
Hull ID:	3320171054		3320171054	
IMO Number:	3320171143	4 >		
	IMO Number Not Available	4 1	IMO Number Not Available	
Vessel Type:	Production Commercial •	4 1	Production Commercial	
Analysis Name:	JHW 3-3-2017 1038			
- Engine #1 Information				Click to Open/Close Section
Engine #1 Basic Information	CAMPAR Report Value		SI Vessel Value	
Serial Number:	E3X00202		E3X00202	
Engine Location:	port			
Engine Model (TMI):	3512C			
Hours:		▲		
Engine #1 Performance Data Per TMI:				
Rated Power:	1301	HP		
Rated Speed:	1200	RPM		
Peak Torque:	6564.3	LB-FT		
Peak Torque Speed:	1100	RPM		
Default Low Idle	450	RPM		

Saving and Navigating

Click the 'Save', 'Save and Next', and 'Cancel' buttons on each page to navigate through the pages. Clicking 'Save and Next' saves any edits made to the pages and advances to the next page. Clicking 'Cancel' will return the fields back to the values present when the page opened. You can also navigate through the pages by clicking the tabs where data has been entered into each required field.

Save Save and Next Cancel

Analysis Info & Legend

At the top of the analysis record on each page is a section that contains some analysis record information as well as some icon explanation.

There are some fields that are required (red icon) before advancing to next page is allowed.

There are some fields that are not required but will contribute to a better report (yellow icon).

Some fields have an information (i) tip available upon rollover and text will appear to assist with field entry.

As the analysis process advances, some tabs will be available when all required fields are completed (black tab, green checkmark) and some tabs will not be available due to missing data (gray tab).

- Analysis Info & Legend	Olick to Open Obse Sector
Analysis Name: JHW 3-3-2017 1038 Created Date: 3/3/2017 10:38:59 AM Vessel Name: The Integrity	Clone
🎿 Non-Required Missing Data 🧿 Required Missing Data 🛛 Information Tool Tip 📕 Available Navigation 📗 Unavailable Navigation	

Also in this section is an option to Clone the analysis record you are viewing.

In the upper right of this section as well as the other sections throughout the pages, is a link "Click to Open/Close Section". This allows the sections to be collapsed for easier navigation throughout the page.

The Pre Test

The Pre Test page contains information collected prior to the start of the sea trial. Complete as many of the fields as you are able for best results. All required fields must be completed before advancing to the next page. Navigation is at the top and bottom of page as well as by clicking the next tab.

Analysis Info & Legend					Click to Open/Close Section
Analysis Name: JHW 3-3-2017 1038 Created Date: 3	/3/2017 10:38:59 AM Vessel Na	ne: The Integrity			Clone
🤱 Non-Required Missing Data 🕛 Required Missing [Data 🔀 Information Tool Tip	Available Navigation	Unavailable Nav	igation	
Pre Test Data					Click to Open/Close Section
	CAMPAR Report Value				
ea Trial Date:	2017-03-03				
ommissioning Engineer:		4			
essel Location at Sea Trial:		4			
el System					
easured Fuel API Gravity:		🔥 API			
easured Fuel Temp:		🔥 F			
ssel Ambient Conditions During Test					
itside Air Temp:		🔔 F			
ea Water Temp:		🔥 F			
ea Water Depth:		FEET			
ngine Room Ambient Air Temp:		🔥 F			
perating Conditions (Sea Conditions): 🛛					
ssel Ambient Design Conditions					
utside Air Temp:		🔔 F			
ea Water Temp:		🔥 F			
Engine Application Data for Fuel and Boost Curves					Click to Open/Close Secti
Variable Speed	•				
	Free Running				
	Bollard Pull - Fixed Pitch				
	Bollard Pull - Variable Pitch				
Fixed Speed					
Engine Configuration Data					Click to Open/Close Secti

Sea Trial Data Selection

The Sea Trial Data Selection page is used to select a test data row or to enter data and select the applicable data points to generate the fuel and boost curves.

Analys	sis Info & Legend								Click to Open/Close Sec
nalysi	s Name: JHW 3-3-2017 1	252 Cre	eated Date: 3/3/2017	12:52:40 PM Vessel	I Name: Concordia				Clor
Non-	Required Missing Data 🤇	Requi	red Missing Data 🚺	Information Tool Tip	Available Naviga	ation 📕 Unavailable I	Navigation		
	e select a PAR test data lich is usually indicated b								
ian 10	e select the test points d test points should be sele gines rated up to 1400 rpm	ected to	generate the curve -	these can be change	ed at any point in the a		n below. At least 1	and no more	
. En	gines rated between 1401 gines rated 1801 and abov	to 1800	rpm - Low idle, then	1000 rpm and every	100 rpm up to full throt		o full throttle.	b	
5 243 5								6	
igine PAR Test Data	1: SDN00112 Variable Speed Fuel/Boost Curve Data	Run Point	Desired Engine Speed (rpm)	Actual Engine Speed (rpm)	Actual Engine %	Boost (Inlet Manifold Pressure - 911) (kPa)	Fuel Rate (969) (L/HR)	Manual Fuel Rate (992) (L/HR)	
		1	600	600	0	8	8	Mar of Marchall	
•		2	1500	1500	40	160	95		
	×.	3	1800	1800	65	200	170		
	×	4	2000	2000	86	220	230		
	*	5	2078	2000	86	220	230		
•	*	6	2205	2100	100	240	260		
nino	2: NFL05062								
PAR Test Data	Variable Speed Fuel/Boost Curve Data	Run Point	Desired Engine Speed (rpm)	Actual Engine Speed (rpm)	Actual Engine % Load	Boost (Inlet Manifold Pressure - 911) (kPa)	Fuel Rate (969) (L/HR)	Manual Fuel Rate (992) (L/HR)	
	*	1	600	500	116	1	10	50	
•	~	2	1500	600	116	3	10	50	
	×	3	1800	800	116	4	10	50	
	~	4	2000	900	116	6	10	50	
	*	5	2078	900	116	6	10	50	
•	2	6	2205	1000	116	6.5	10	50	

PAR Test Data

The PAR Test Data page allows the user to input (in the case of a manual analysis), or review and edit (in the case of an analysis originating from Cat ET output files) 900 "actual" measurement values. For ease of use, click the "Click to Open/Close Section" as you complete each section.

Display for some of the sections is conditional based on selections made on the Pre Test page.

Complete as many of the fields as you are able for best results. All required fields must be completed before advancing to the next page.

- SDN00112 (Center) Analysis Info & Legend					Click	to Open/Close Sec
Analysis Name: JHW 3-3-2017 1252 Created Date: 3/3/2017 12:52:40 PM Vessel	I Name: Concordia					Clo
🤽 Non-Required Missing Data <mark>O</mark> Required Missing Data 🔀 Information Tool Tip	Available Navigatio	n 📕 Unavai	lable Navigation			
lote: You must view each serial number at least once to generate PAR Test Data warnin	ng messages for that seria	I number.				
- Engine Serial Numbers					Click	to Open/Close Sec
SDN00112 (Center)		1				
NFL05062 (Starboard)		ŀ	6			
- SDN00112 (Center) Jacket Water System					Click	to Open/Close Sec
	CAMPAR F Value		TMI Min S	pec	TMI Max S	spec
922 - Jacket water temp from HEX outlet:		C 🔔			77.8	C
001 - Jacket water engine outlet temperature (before regulators):	87	С			99	с
902 - Jacket water engine inlet temperature:	73	с			79.2	С
901 - 902) - Jacket water engine temperature delta (dT):	14.0	с	13.4	с	21.2	с
920 - Jacket water pump inlet pressure:	10	kPa	3.4	kPa		
919 - Jacket water pressure at pump outlet:	150	kPa				
- SDN00112 (Center) Raw Water System					Click	to Open/Close Sec
	CAMPAR F Value		TMI Min S	nec	TMI Max S	Snec
966 - Raw / sea water pump inlet temperature:	30	c	111111111	poo	32	C
957 - Raw / sea water temp from HEX outlet (high temp or parallel):	37	с			54	С
954 - Raw / sea water temp to HEX inlet (low temp or parallel):	30	С				
957 - 954) - Raw water cooling system temperature delta:	7.0	с	22.4	С	27.8	С
964 - Raw / sea water pressure from HEX outlet (high temp or parallel):	50	kPa			141.2	kPa
965 - Raw / sea water pump inlet pressure:	-20	kPa	-24	kPa		
963 - Raw / sea water pump outlet pressure:	116	kPa				

Fuel Rate & Boost Data

This page allows the user to select data source, plot format, and plot inclusion for how graphs are to be displayed. NOTE: Graphs are not available for Fixed Speed engines.

Complete as many of the fields as you are able for best results. All required fields must be completed before advancing to the next page.

Analysis I	nfo & Legend						Click to Open/Close Se
nalysis Na	ame: JHW 3-3-2017 1252 Created Date: 3/3/20	017 12:52:40 PM	Vessel Name: Conco	ordia			CI
Non-Req	uired Missing Data <mark>0</mark> Required Missing Data	Information To	ol Tip 📕 Available	Navigation Una	vailable Navigation		
Fuel Rate	data points are selected, added, or removed or	n the Sea Trial Dat	a Selection page.				
Fuel Flow	Data Source						Click to Open/Close Se
Jse Manu	ally Captured Fuel Flowmeter Data (992) (recom Fuel Flow Rate data (969)	mended)					
Data Plot							Click to Open/Close S
	e curves on individual graphs e curves on single graph						
	lot Formatting options available only for analys	is' with multiple er	nines that share per	formance numbers			
. Data Pi	or ronnatting options available only for analys	is with multiple er	igilies that share per	formatice numbers.			
	DN00112 Location: Center			1	ENGINE LOAD STEP	s	
elect To							
Report		1	2	3	4	5	6
	Engine Speed (RPM):	600	1500	1800	2000	2000	2100
		Access.	112.545.5	A 12850 (245)	and the second second	1.0738338	
•	Fuel Rate (969) (L/HR):	8	95	170	230	230	260
y y			95 160	170 200	230 220	230 220	260 240
	Fuel Rate (969) (L/HR):	8					
ø	Fuel Rate (969) (L/HR): Boost (Inlet Manifold Pressure - 911) (kPa):	8					
*	Fuel Rate (969) (L/HR): Boost (Inlet Manifold Pressure - 911) (kPa): Boost - Left (Optional) (kPa):	8					A
-	Fuel Rate (969) (L/HR): Boost (Inlet Manifold Pressure - 911) (kPa): Boost - Left (Optional) (kPa): Boost - Right (Optional) (kPa):	8		200	220	220	A
GINE 2: N	Fuel Rate (969) (L/HR): Boost (Inlet Manifold Pressure - 911) (kPa): Boost - Left (Optional) (kPa): Boost - Right (Optional) (kPa): IFL05062 Location: Starboard	8		200		220	A
GINE 2: N elect To :lude Plot	Fuel Rate (969) (L/HR): Boost (Inlet Manifold Pressure - 911) (kPa): Boost - Left (Optional) (kPa): Boost - Right (Optional) (kPa): IFL05062 Location: Starboard	8	160	200	220	220 \$	240
GINE 2: N elect To	Fuel Rate (969) (L/HR): Boost (Inlet Manifold Pressure - 911) (kPa): Boost - Left (Optional) (kPa): Boost - Right (Optional) (kPa): IFL05062 Location: Starboard	8	160	200	220 ENGINE LOAD STEP	220 \$	240
GINE 2: N elect To lude Plot Report	Fuel Rate (969) (L/HR): Boost (Inlet Manifold Pressure - 911) (kPa): Boost - Left (Optional) (kPa): Boost - Right (Optional) (kPa): IFL05062 Location: Starboard t Engine Speed (RPM):	8 8 1 500	160 2 600	200 3 800	220 ENGINE LOAD STEP 4 900	220 \$ \$ 900	240 6 1000
GINE 2: N ielect To :lude Plot N Report	Fuel Rate (969) (L/HR): Boost (Inlet Manifold Pressure - 911) (kPa): Boost - Left (Optional) (kPa): Boost - Right (Optional) (kPa): IFL05062 Location: Starboard t Engine Speed (RPM): Fuel Rate (969) (L/HR):	8 8 1 500	160 2 600 10	200 3 800 10	220 ENGINE LOAD STEP 4 900 10	220 \$ \$ 900 10	240 6 1000
GINE 2: N select To Slude Plot Report	Fuel Rate (969) (L/HR): Boost (Inlet Manifold Pressure - 911) (kPa): Boost - Left (Optional) (kPa): Boost - Right (Optional) (kPa): IFL05062 Location: Starboard Lengine Speed (RPM): Fuel Rate (969) (L/HR): Boost (Inlet Manifold Pressure - 911) (kPa):	8 8 1 500	160 2 600	200 3 800	220 ENGINE LOAD STEP 4 900	220 \$ \$ 900	240 6 1000
GINE 2: N ielect To :lude Plot N Report	Fuel Rate (969) (L/HR): Boost (Inlet Manifold Pressure - 911) (kPa): Boost - Left (Optional) (kPa): Boost - Right (Optional) (kPa): IFL05062 Location: Starboard t Engine Speed (RPM): Fuel Rate (969) (L/HR):	8 8 1 500	160 2 600 10	200 3 800 10	220 ENGINE LOAD STEP 4 900 10	220 \$ \$ 900 10	240 6 1000

Fixed Speed Load Test (not applicable for variable speed engines)

The Fixed Speed Load Test page is available when the 'Fixed Speed' option is selected on the Pre Test page in the 'Engine Application Data for Fuel and Boost Curves' section. When Fixed Speed is the application type, the Fuel Rate Curve and the Fuel Boost Curve pages will not be available.

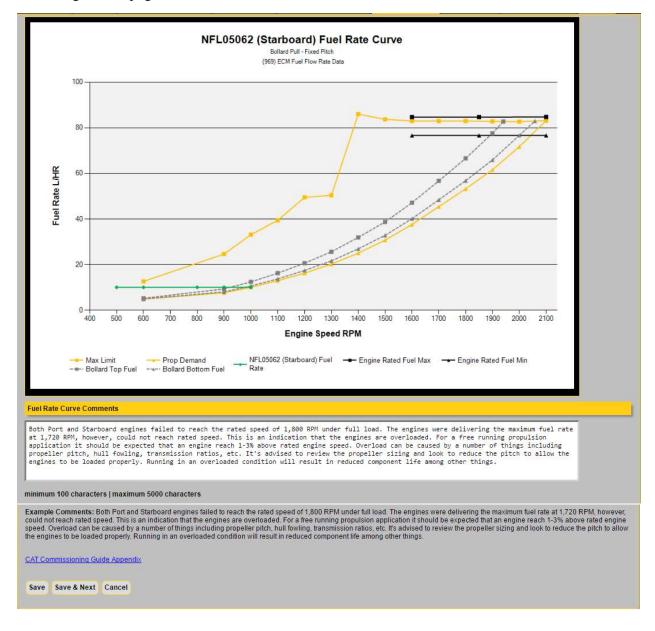
The Fixed Speed Load Test page displays load point information associated with the engine(s).

Complete as many of the fields as you are able for best results. All required fields must be completed before advancing to the next page.

	Center) Analysis Info & Legend										Click to Open/Close Se
Analysis Nam	e: JHW 3-3-2017 144 Created Date: 3/3/2017 1:45:01 PM Vesse	I Name: Conco	ordia								Cle
🔓 Non-Requi	red Missing Data 🧿 Required Missing Data 🚯 Information Tool 🛾	lip 📕 Availal	ble Navigatio	on 📕 Unav	vailable Navi	gation					
Engine Seria	al Numbers										Click to Open/Close Se
SDN00112 (0	Center)										
NFL05062 (S	starboard)										
SDN00112 (Center) Performance										Click to Open/Close Se
900 Number	Description	Units	i	2	Fixed S	beed Load Po	ints 5	6	Spec Min	Spec Max	
910	Engine speed:	RPM	600	1500	1800	2000	2000	2100			
991	Engine load from ECM:	%	0	40	65	86	86	100			
969	Fuel consumption from ECM:	L/HR	8	95	170	230	230	260			
992	Fuel flow meter consumption (Manual Entry):	L/HR		4	4	4	4	4 4			
SDN00112 (Center) Jacket Water										Click to Open/Close S
900 Number	Description	Units			Fixed S	peed Load Po	ints		Spec Min	Spec Max	
922	Jacket water temp from HEX outlet	C	1	2	3	4	5	6	70	77.8	
922	Jacket water temp from HEX obliet.	c	75	80	83	87	87	87	70	99	
902	Jacket water engine inlet temperature ;	c	73	73	73	73	73	73		79.2	
901-902	Engine Jacket Water (Out-In) (901 and 902):	c	2.0	7.0	10.0	14.0	14.0	14.0	13.4	21.2	
SDN00112 (Center) Aftercooler										Click to Open/Close S
301001121	Center) Attercooler				Fixed St	peed Load Po	inte				
00 Number	Description	Units	1	2	3	4	1115 5	6	Spec Min	Spec Max	
903	Aftercooler water inlet temp to engine :	С	42	42	42	42	42	42		52	
903A	Aftercooler water outlet temp from engine.	С	52	52	52	52	52	52			
903A-903	Aftercooler Water (Outlet-Inlet) (903A and 903):	С	10.0	10.0	10.0	10.0	10.0	10.0	9.7	15	
SDN00112 (Center) Raw Water										Click to Open/Close S
00 Number	Description	Units	4	2	Fixed S	peed Load Po	ints 5	6	Spec Min	Spec Max	
966	Raw / sea water pump inlet temperature:	с	30	30	30	30	30	30		32	
957	Raw / sea water temp from HEX outlet (high temp or parallel):	с	37	37	37	37	37	37			
957											

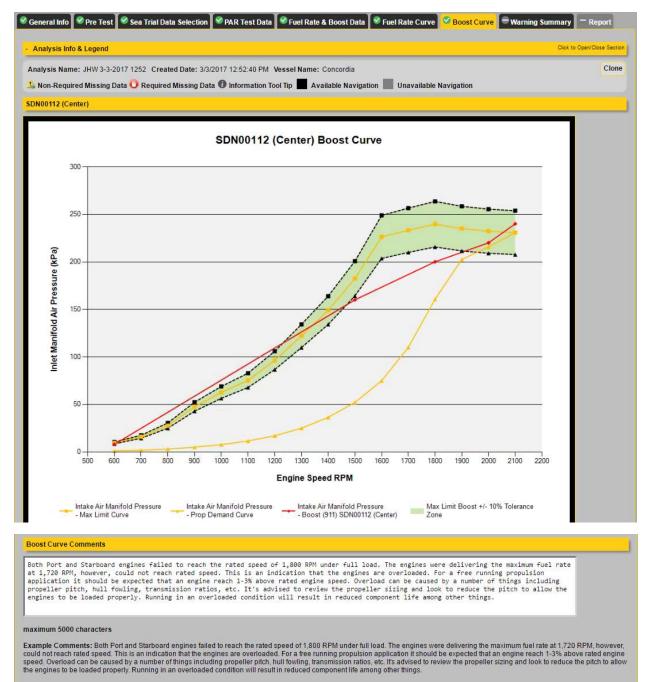
Fuel Rate Curve (available for variable speed engines only)

Displays the graph generated from data entered on previous pages. Comments are required before advancing to next page.



Boost Curve (available for variable speed engines only)

This graph shows the boost pressures of the engine.

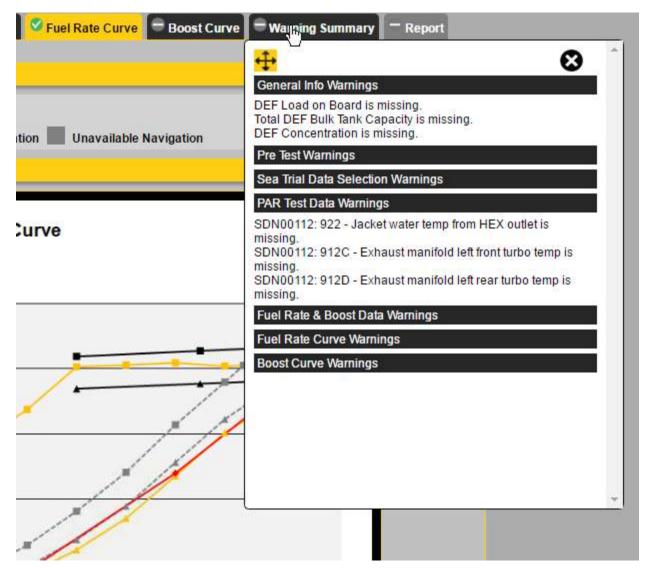


CAT Commissioning Guide Appendix

Save Save & Next Cancel

Warning Summary

The Warning Summary tab can be clicked and will open the warning popup from non-corresponding tabs. Or, when the previous pages have all required fields filled, the Warning Summary page can be accessed. It will display all of the current required field messages that apply for the supplied information in the analysis.



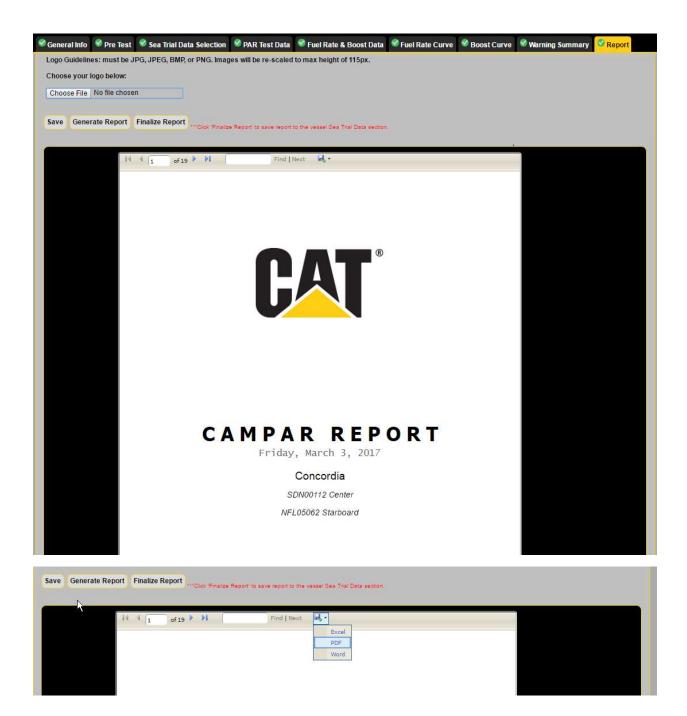
Analysis Info & Legend	Click to Open/Close Sectio
Analysis Name: JHW 3-3-2017 1252 Created Date: 3/3/2017 12:52:40 PM Vessel Name: Concordia	Clone
😓 Non-Required Missing Data 🧿 Required Missing Data 🔀 Information Tool Tip 📕 Available Navigation 📗 Unavailable Navigation	
General Info Warnings	Click to Open/Close Section
EF Load on Board is missing. tal DEF Bulk Tank Capacity is missing. EF Concentration is missing.	
Pre Test Warnings	Click to Open/Close Sectio
Sea Trial Data Selection Warnings	Click to Open/Close Sectio
PAR Test Data Warnings	Click to Open/Close Sectio
DN00112: 922 - Jacket water temp from HEX outlet is missing. DN00112: 912C - Exhaust manifold left front turbo temp is missing. DN00112: 912D - Exhaust manifold left rear turbo temp is missing.	
Fuel Rate & Boost Data Warnings	Click to Open/Close Sectio
Fuel Rate Curve Warnings	Click to Open/Close Sectio
Boost Curve Warnings	Click to Open/Close Sectio

Generate Report

The report is the final product of your analysis and represents all the collected and calculated data for the vessel. This page presents an interface opportunity to add notes for every section of the report. Click the Generate Report button to display it in the report viewer. You can select to export the report in either XLS, Word, or PDF Format by selecting the format from the dropdown and clicking on the 'Export' link.

Use the 'Finalize Report' button to save the Report to the Sea Trial Data tab in Service Interlink.

alysis Name: JHW 3-3-2017 1252 Cre	eated Date: 3/3/2017 12:52:40 PM Vessel Name: Concordia
Non-Required Missing Data <mark>O</mark> Requir	red Missing Data 🔀 Information Tool Tip 📕 Available Navigation 📗 Unavailable Navigation
Enter any report comments in the text Choose your dealer logo if applicable. Click "Save" to upload your comments Click "Generate Report" to generate yo Finalizing your report will 'lock down' yo	s & dealer logo.
General	Enter Comment:
Jacket Water System	Both Port and Starboard engines failed to reach the rated speed of 1,800 RPM under full load. The engines were delivering the maximum fuel rate at 1,720 RPM, however, could not reach
Raw Water System	rated speed. This is an indication that the engines are overloaded. For a free running propulsion
Air Inlet System	application it should be expected that an engine reach 1-3% above rated engine speed. Overload can be caused by a number of things including propeller pitch, hull fowling, transmission ratios,
Exhaust System	etc. It's advised to review the propeller sizing and look to reduce the pitch to allow the engines to be loaded properly. Running in an overloaded condition will result in reduced component life
Lube System	among other things
Fuel System	
Engine Power	
Marine Gear	
	313 characters remaining
o Guidelines: must be JPG, JPEG, BMF	P, or PNG. Images will be re-scaled to max height of 115px.
ose your logo below:	



Finalize a Report

Click 'Finalize Report' to save report to the vessel Sea Trial Data section. Once the report is finalized, the analysis is read-only. A clone of the analysis can be done if editing is desired.

Save Generate Re	port Finalize Report	nt to save report to the vessel Sea Trial Data section:	
	i4 4 1 of19 ▶ №	Find Next	

Analysis Info & Legend							Click to Open/Close Sec
nalysis Name: JHW 3-3-2017	1252 Created Date: 3/3/	2017 12:52:40 F	M Vessel Nam	e: Concordia			Clo
Non-Required Missing Data	O Required Missing Dat	a A Informatio	n Tool Tin	Available Navigation	Unavailable	Navigation	
non noquirou intoonig Duta				in and the manigation	onurunum	mangation	
Туре	File Description	Date Created	Sea Trial Date	Date Finalized	Submitted By	Engine Hours	
Type Campar Report (.pdf)	File Description Campar Report	Date Created 3/3/2017	Sea Trial Date 5/10/2016	Date Finalized 3/3/2017 1:30:09 PM	Submitted By	Engine Hours 33	SDN00112_332017_OTHR_PERF.pdf
	r				T		SDN00112_332017_OTHR_PERF.pdf SDN00112_332017_ETGI_PERF.bdf

Clone an Analysis

Several opportunities to clone an analysis are now available. Click the 'Clone' button from the search results or from anywhere within an existing analysis in order to create a new copied record. The cloned analysis can then be edited. Cloning a finalized analysis will save the new analysis in a non-finalized state and will refresh the TMI spec data.

Clone is available when viewing your own analysis records or that of another user.

When viewing your own analysis it is editable until you choose to finalize the report. When viewing another user's analysis record, you are not able to edit it even when it is not finalized. That may be an instance where clone could be utilized if needing to complete an analysis started by another user.