



Fleet Asset Management

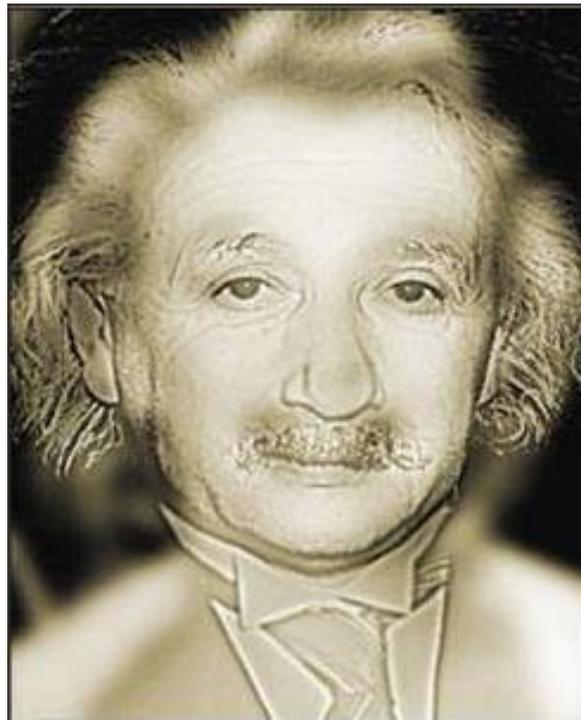
Maximum Profit by Minimum Planning

April, 2017

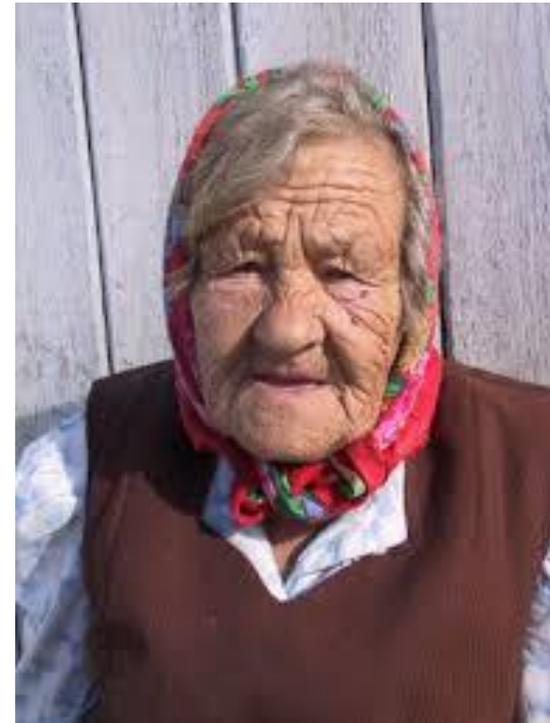
Performance is all that matters *and that is what Fleet Asset Management is all about*



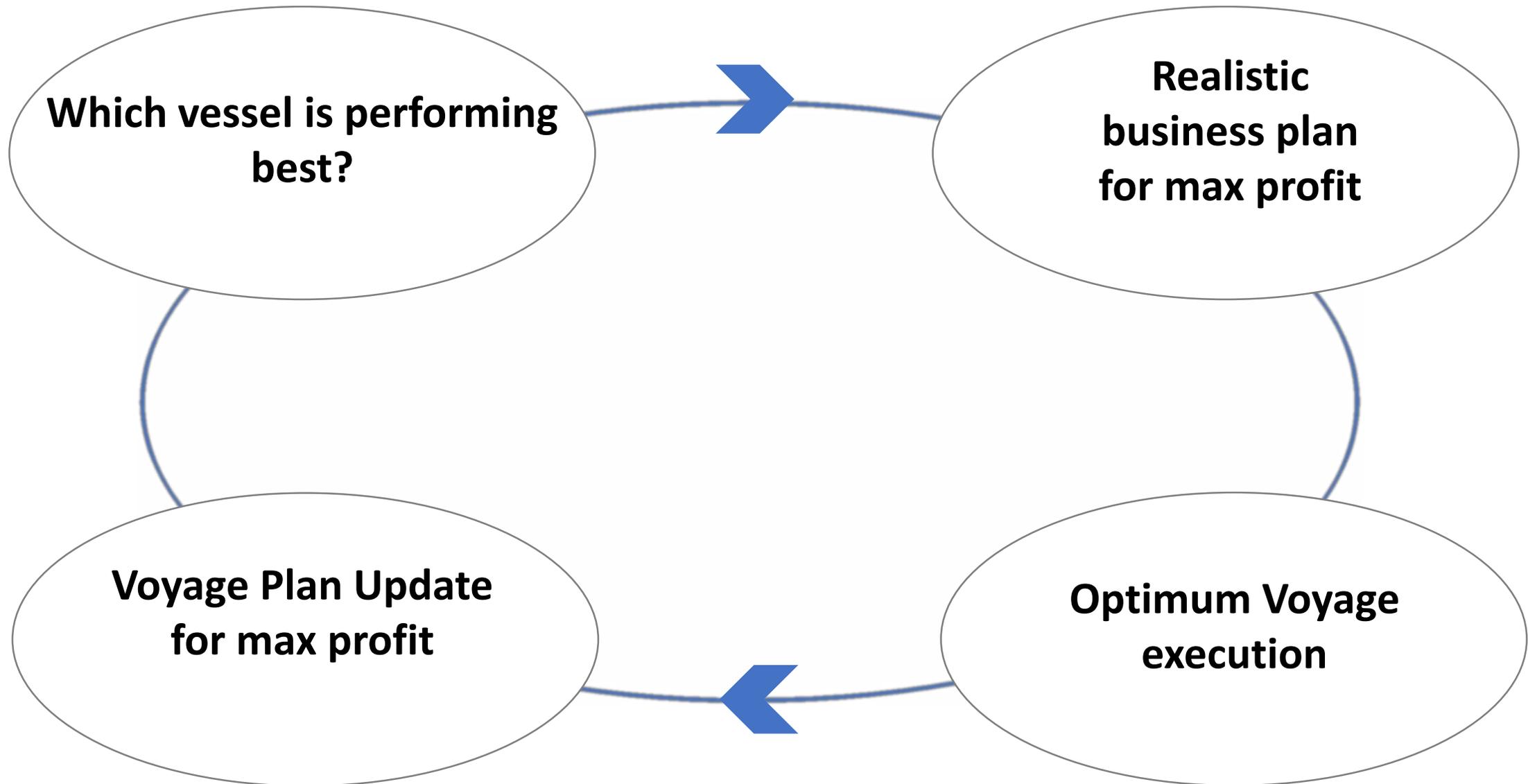
Brad Pitt

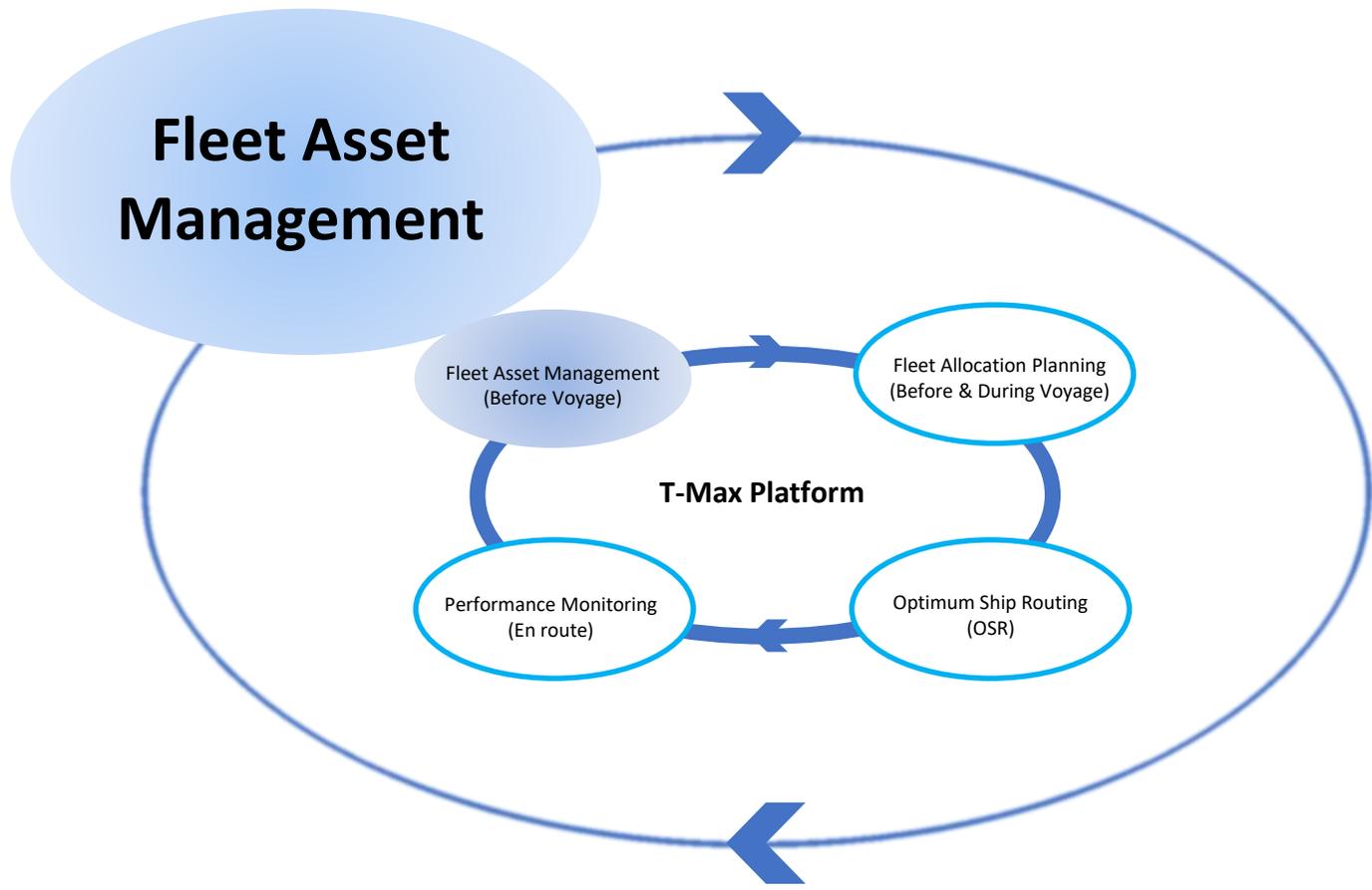


Einstein
or
Marilyn Monroe



Old "Russian" lady





Fleet Asset Management (“FAM”) through EXASITE® Voyage Online Tool supported by latest and timely analytics with Weathernews big data

- WNI continuously receives data from vessels monitoring demonstrated performance in real-time
- Through EXASITE® Voyage online tool, WNI provides several modules to process and analyze the immense amount of data assembled.
- Data is used evaluate and report on the actual performance of the each vessels, at all speeds, against the ratings that were obtained from the shipyard.
- Individual Performance Curves are updated on a daily basis and can be accessed any time.

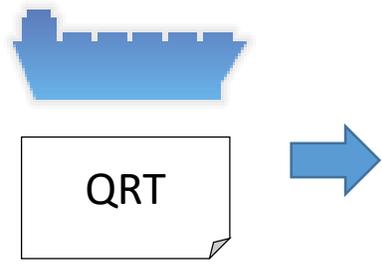
Service Menu	Service Period	Target	Client's Value	Content
Fleet Asset Management	Anytime anywhere	Benchmark	(a) Fleet performance analysis based on QRT reports (b) CP warranty analysis DB for re-T/C in	#3 QRT Alert #5 Performance Evaluation #10 Daily Performance Management #13 All Weather Performers Finder #11 Voyage Performance Evaluation #14 CP Warranty based Performers Finder

NOTES

- FAM contents are generated based on WNI QRT reporting system.
WNI analysis are only as good as the input received
WNI suggest intensive Quality Control of vessel reported data by clients.
- WNI QRT is preferred reporting format; External reporting data is converted to QRT format.
- Past 6 months data are to be updated at installation – lapse time about 1 week.

#	Service Menu	Content	How it can help you
#3	QRT Alert	<p>Ship report monitoring by ship / group and calendar</p> <ul style="list-style-type: none"> ➤ Missing report(s) ➤ Ship reports provided in an irregular order, such as “NOON – Departure – Arrival”. ➤ Missing report item(s) ➤ Reported values over threshold range set up by users 	<p>Exception handling</p> <ul style="list-style-type: none"> ➤ Fleet Asset Management output quality depends on ship reports quality – (a) data availability and (b) data accuracy, QRT Alert is designed to assist clients to have good quality ship reports in real-time ➤ Link to “Daily Performance Management”
#5	Performance Evaluation	<p>Model-based performance evaluation based on ship reports database (menu #10).</p> <ul style="list-style-type: none"> ➤ Performance curves of <ul style="list-style-type: none"> ▪ Speed vs. RPM analysis ▪ Fuel Consumption vs. RPM analysis ▪ Speed vs. Fuel Consumption analysis. ➤ Speed and Fuel Consumption performance table at each MCR%, RPM ➤ Multiple ships, multiple periods comparison with ship maintenance events. 	<p>Ship-specific performance evaluation</p> <ul style="list-style-type: none"> ➤ Speed and Fuel Consumption performance table at each MCR%, RPM can be used in voyage estimate. ➤ Multiple periods comparison of a ship can be used to measure effects of maintenance (dry-dock, underwater cleaning, engine repair, etc.) ➤ Latest performance assessment with quick operations.
#10	Daily Performance Management	<ul style="list-style-type: none"> ➤ Reports archive and display supporting spreadsheet and charts. ➤ Alerts issued when missing information or suspicious information found (e.g data exceed thresholds) ➤ Ship reported data can be modified and used in ship performance analysis of other menus in FAM. ➤ Ship reported weather/seas as well as WNI objective weather and sea values relative to ship reports. 	<p>Ship reports database with accuracy</p> <ul style="list-style-type: none"> ➤ Objective ship/fleet performance analysis and comparison based on objective weather/sea analysis data. ➤ FAM support optimum fleet allocation planning based on FAM application with ship reports database.

#	Service Menu	Content	How it can help you
#11	Voyage Performance Evaluation	<ul style="list-style-type: none"> ➤ Voyage summary under all weather conditions as well as good weather (BF4) conditions with performance relevant items. ➤ Day-to-day ship reports display 	Quick review of each voyage
#13	All Weather Performers Finder	<ul style="list-style-type: none"> ➤ Real-time ship demonstrated speed and consumption analysis under all weather conditions as well as user-defined good weather conditions. ➤ Performance analysis with Weathernews' objective weather/sea analysis data. ➤ Filtering function with RPM range, speed range, Displacement/Draft range. 	<p>Find good “performers” under all weather conditions</p> <ul style="list-style-type: none"> ➤ Once good performers found charterers should negotiate with ship owners to extend charter periods. Once poor performers found, charterers should ask ship owners for better maintenance. ➤ FAM data can be shown to charterers to maintain good TC business with and extended charter periods.
#14	CP Warranty based Performers Finder	<ul style="list-style-type: none"> ➤ Voyage Audit Report analysis data database with report download. ➤ Users can input their findings and rating, which can be shared among company colleagues. ➤ Filtering function to find your required performers. 	Pick up good performers from past voyage records



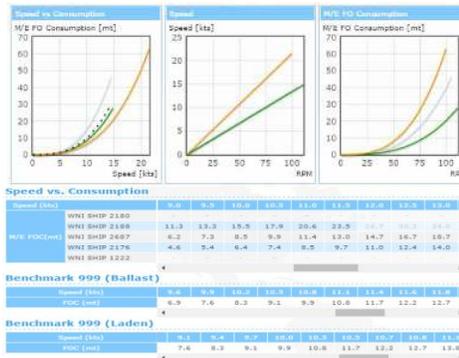
Daily Performance Management (#10)

Voyage Name	Ship	ETA	Actual	Deviation	Speed	Consumption	Weather	Wave	Wind	Temp	Humid	Pressure	Visibility	Cloud	Sea	Wave	Wave Dir	Wave Hgt	Wave Per	Wave Len	Wave Dir	Wave Hgt	Wave Per	Wave Len	
BBP	2020-01-09	3200	9	0.0	10.0	100.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

QRT Alert (#3)

Voyage Name	Ship	ETA	Actual	Deviation	Speed	Consumption	Weather	Wave	Wind	Temp	Humid	Pressure	Visibility	Cloud	Sea	Wave	Wave Dir	Wave Hgt	Wave Per	Wave Len	Wave Dir	Wave Hgt	Wave Per	Wave Len	
BBP	2020-01-09	3200	9	0.0	10.0	100.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

Performance Evaluation (#5)



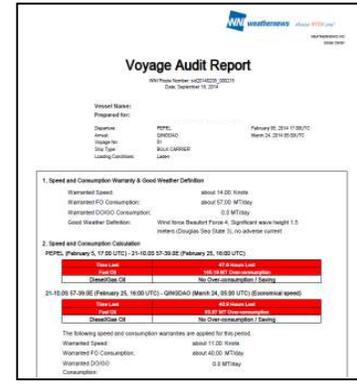
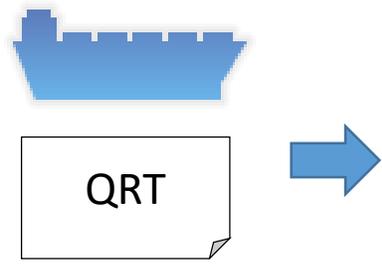
All Weather Performers Finder (#13)

Ship Name	Voyage Code	Port	Date/Time (UTC)	Port	Date/Time (UTC)	L/R	Speed	W/E FO (1/Day)	A/E FO (1/Day)	A/E DO (1/Day)	MC SW	MC Output %	Auf Report
BBP	10000	T23	07	T1	07	T3	133	07	57	07	133		
YYY	23500	T23	07	T1	07	T3	133	07	57	07	133		

Voyage Performance Evaluation (#11)

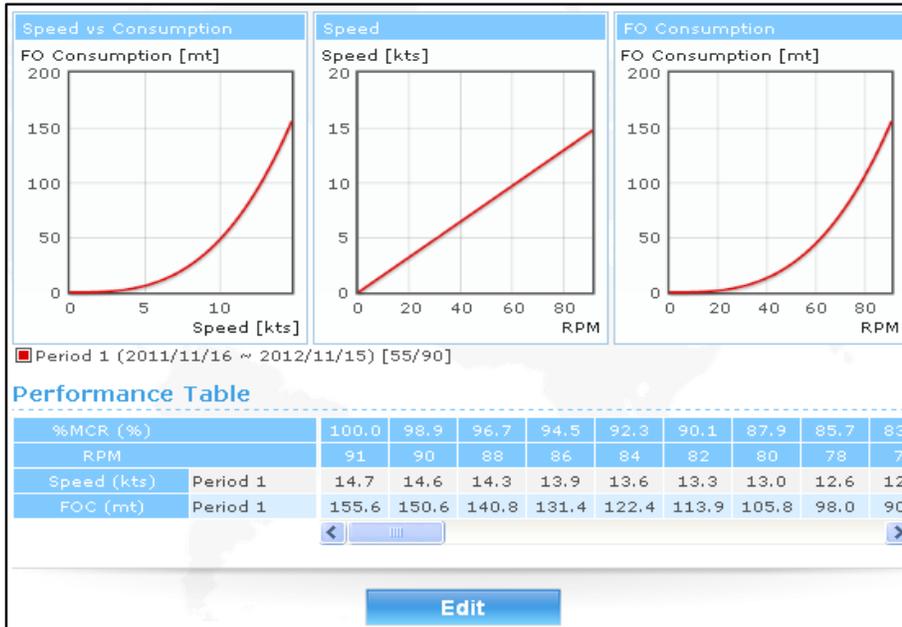
Ship Name	Voyage Code	Exporters	Port	Date/Time (UTC)	Port	Date/Time (UTC)	L/R	Speed	W/E FO (1/Day)	A/E FO (1/Day)	A/E DO (1/Day)	MC SW	MC Output %	Auf Report
	01 L	SAN LORENZO		2016-08-01 09:00		2016-08-17 14:00	Laden	10.4	19.67	1.94	-	95.3	-	16
	01	PORT ELLIZABETH		2016-08-18 05:48		2016-09-07 09:42	Laden	11.0	19.35	1.87	-	96.8	-	22
	051 L	SINGAPORE		2016-09-08 11:30		2016-09-13 06:40	Laden	11.5	19.68	2.03	-	96.7	-	5
	052 L	CALIAN		2016-09-21 16:40		2016-10-13 20:24	Laden	11.9	18.97	1.84	-	96.5	-	14
	V201063	TACANG		2016-10-18 01:48		WANGZHOU	Laden	-	-	-	-	-	-	-
							Total	11.1	19.37	1.94	-	96.3	-	57

Voyage Audit Report (CP Warranty Analysis Report)



CP Warranty Analysis

CP Warranty based Performers Finder (#14)



Single Vessel Analysis

Analysis charts included are:

- Daily Fuel Oil Consumption vs RPM
- Daily Speed vs. RPM
- Fuel Oil Consumption vs. Speed

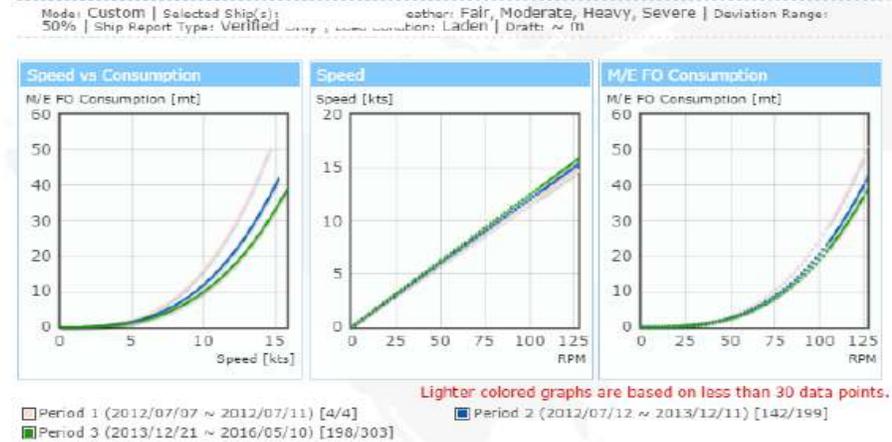
Speed and consumption analysis table at each MCR (%) and RPM is also included



Multiple Vessel Analysis

Multiple vessels can be compared on the charts and table with your preferred analysis parameters

Conditions Adopted in this Analysis:



Performance Table

[csv file download](#)

%MCR (%)	1	88.6	84.4	80.2	76.2	72.3	68.6	65.0	61.5	58
RPM	1	122	120	118	116	114	112	110	108	10
Speed (kts)	Period 1	3	14.1	13.9	13.6	13.4	13.2	12.9	12.7	12.5
	Period 2	3	14.7	14.4	14.2	14.0	13.7	13.5	13.2	13.0
	Period 3	4	15.2	15.0	14.7	14.5	14.2	14.0	13.7	13.5
M/E FOC (mt)	Period 1	4	45.1	43.0	40.9	38.8	36.8	34.9	33.1	31.3
	Period 2	3	37.4	35.6	33.9	32.2	30.5	29.0	27.4	26.0
	Period 3	2	34.4	32.8	31.2	29.6	28.1	26.6	25.2	23.9

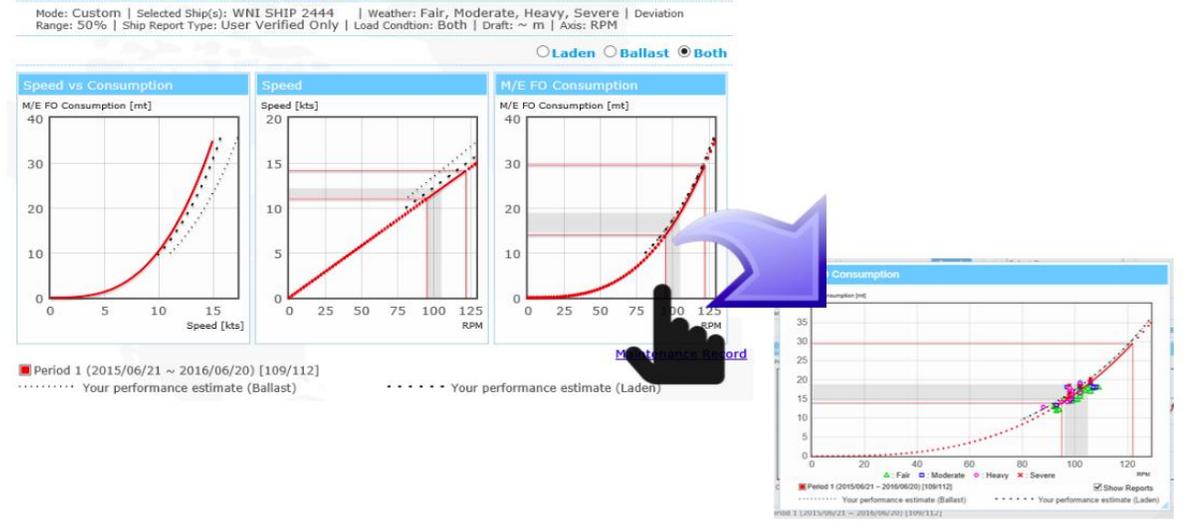
Ship Name:

Category	Date	Remarks	Update Time	Editor	Edit
+ Add Schedule					
Dry Dock	2011/07/03 ~ 2011/07/14	Ras Laffan	2013/03/18		⚙️ ✖️
Engine Repair	2012/07/07 ~ 2012/07/07	Off Colombo ME repair	2013/03/18		⚙️ ✖️
Under Water Hull Cleaning	2012/07/11 ~ 2012/07/12	UWC Singapore	2013/03/18		⚙️ ✖️
Dry Dock	2013/12/11 ~ 2013/12/21	DD at Naikai	2014/01/09		⚙️ ✖️

Multiple Periods Comparison with Maintenance Effect Analysis

Multiple periods divided by ship maintenance (input by users) can be compared on the charts and table.

Conditions Adopted in this Analysis:



Independent performance curves are generated based on user-provided data (e.g. CP pairings, sea trial data, etc.), and compared with QRT-based performance curves.

Multiple correlation of RPM/Speed/Fuel consumption provided by users will be input by WNI to shown with each vessel's performance

Support analysis of preferred ship name(s) and time period, for calculating demonstrated speed and consumption using filters. Users can open up each vessel's Daily Details spreadsheet - Daily Performance Management - by selecting respective ship name.

Target : Speed : 13.5 knots
 ME FO : 30.0 MT Total FO : 32.0 MT DO/GO : 2.0 MT
 Good Weather : Wind BF ≤ 5

Outside ECA
 Inside ECA
 [B + L](#)
 [Download](#)
 [Setting](#)
 [Chart](#)

Ship Name	Voyage #Code	Departure		Arrival		L/B	All Weather							Good Weather				All Weather (Target - Actual)						
		Port	Date/Time	Port	Date/Time		ME FO	AE FO	DO/GO ULS	Speed	Distance	Time	# of Reports	ME FO	AE FO	DO/GO ULS	Speed	Distance	Time	# of Reports	ME - AE FO	DO/GO ULS		
W# Ship 30	1100	SAITONG	2016Jan-02	ROBERTSBANK	2016Jan-07	B	20.00	0.00	4.00	12.32				17.21	0.00	3.20	12.20							
	1100	ROBERTSBANK	2016Jan-07	SPEDU	2016Jan-10	L	21.88	0.00	1.80	12.38				22.71	0.00	3.20	12.70							
	1100	CAREMBANG	2016Jan-01	OSHALTAH	2016Jan-03	B																		
	1100	SAFUK	2016Jan-02	ALUBAL	2016Jan-03	L																		
		Total																						
W# Ship 35	81	PURTOBELVA	2016Jan-01	ROTTERDAM	2016Jan-05	B																		
	81	PORTSANDER	2016Jan-01	SPEDU	2016Jan-05	B																		
	81	SPEDU	2016Jan-01	SAVAKART	2016Jan-01	L																		
	81	SAVAKART	2016Jan-01	ROTTERDAM	2016Jan-01	B																		
		Total																						

Note: A hand cursor icon points to the 'W# Ship 30' label in the main table. An inset window shows a detailed 'Daily Details' spreadsheet for a specific vessel, displaying columns for Date, Time, ME FO, AE FO, DO/GO ULS, Speed, Distance, Time, and # of Reports.

Filtering Set-up

Choose "Ship Name" or "Ship Type" first, then use relevant parameters with your preferred thresholds.
Parameters left blank are not taken into account in data filtering for speed and consumption analysis.

Ships reset

Ship Name:

Max: 10 vessels

- WNISHP 30 ✖
- WNISHP 31 ✖
- WNISHP 32 ✖
- WNISHP 33 ✖
- WNISHP 34 ✖
- WNISHP 35 ✖

Ship Group:

Period reset

Period:
 Last 3 months
 Last 6 months
 Last 12 months
 From / To Dates
 2016/01/01 - 2016/06/01

Voyage Number / Code:

Loading: Laden Ballast

Sailing Condition reset

Speed (kts): -

Idle: -

Output (%): -

Displacement (MT): -

Fore draft (m): -

Mid draft (m): -

Aft draft (m): -

Weather reset

Weather Data:

Good Weather: (up to & including)

Wind BF: (m)

Sea: (m)

Current:

Sample Data Range reset

FO (MT): -

DO/GO/ULS (MT): -

Dep - 1st Noon: hours

Noon - Noon: hours

Last Noon - Arr: hours

Make Analysis

Selection ship name(s) or ship type data can be used with additional filtering parameters and threshold values to perform revised analysis

Filtering Set-up

Period: 2016/01/01 - 2016/06/01 | Loading: Laden
 FO: 0 - (MT) | DO/GO/ULS: 0 - (MT) | Dep - 1st Noon: ≥ 12 hours | Noon - Noon: ≥ 22 hours | Last Noon - Arr: ≥ 12 hours

Good Weather: Wind BF (WIND): ≤ 4 | Current (WIND): —

Daily details data can be downloaded by clicking on your preferred ship name row. Outside ECA Inside ECA [Download](#)

Ship Name	DWT (Dwt)	All Weather					Good Weather				
		M/E FO	A/C FO	DO/GO ULS	Speed	Num. of Reports	M/E FO	A/E FO	DO/GO ULS	Speed	Num. of Reports
WNISHP 32	48866	28.48	2.22	0.43	13.53	32	28.41	2.2	0.46	13.53	30
WNISHP 35	48846	26.45	1.78	0.03	14.2	25	26.39	1.78	0.03	14.4	20
WNISHP 31	48846	26.41	2.05	0.1	12.42	14	26.52	2.07	0.12	12.57	12
WNISHP 30	46547	24.26	1.8	0.12	12.67	40	24.12	1.8	0.12	12.85	36
WNISHP 33	46847	24.01	1.98	0.12	11.96	26	24.05	1.98	0.12	12.01	23
WNISHP 34	46592	19.89	1.72	0.02	13.53	28	19.71	1.72	0.02	13.16	23

The analysis table is made for All Weather / Good Weather conditions.

The overall analysis, as well as daily ship reports, can be downloaded on demand

Selection ship name(s) or ship type data can be used with additional filtering parameters and threshold values to perform revised analysis

Ship Name	DWT	Charterparty Warranty Analysis						Internal Information Sharing					
		Performance Speed (kts)			Daily FO (MT/d)			Ops	Tech	Legal	Finance	Comment	
		All Wx	Good Wx	CP	All Wx	Good Wx	CP						
1	57991	13.20	13.30	14.0	32.34	32.35	32.4						
2	56047	12.12	12.12	12.5	24.88	26.53	25.0						
3	55614	11.74	12.30	14	27.42	29.94	32.8						
4	58730	12.21	12.58	14.0	29.48	29.97	32.8						
5	57905	13.70	12.80	14	30.00	29.88	32.8						
6	55612	11.39	11.33	13	26.20	25.63	26.4						
7	56111	13.10	13.70	14.0	29.97	29.98	30.0						

Vessel List showing extracted vessels with 'Charter Party Warranty Analysis' and 'Internal Information Sharing'.
Selecting a specific ship name reveals vessel's performance history.

Fleet Asset Management by WNI support Fleet **performance analysis** and **benchmarking** including CP **warranty analysis** anytime and anywhere using

#3 QRT Alert

#5 Performance Evaluation

#10 Daily Performance Management

#13 All Weather Performers Finder

#11 Voyage Performance Evaluation

#14 CP Warranty based Performers Finder

REMEMBER:

Even the best performer may fail,
however, using FLEET ASSET MANAGEMENT takes away the uncertainty of guesswork

For any question, you are welcome to contact:

Weathernews Europe
Tuborg Boulevard 5
DK-2900 Hellerup, Denmark

Alex Schmidt Hansen

Mobile: +45 2990 7891

Mail: alexh@wni.com

Supporting material

1. Daily performance management (1/4)

New menu: For each vessel, you can see the **list of all departure, arrival and noon reports**, archived together with Weathernews verified weather data.

These data are then used by other menus to calculate the vessels performance.

All data can be downloaded in Excel or CSV format by clicking on “*Download*”.

Vessel Name : |

Type	Date	UTC	Voyage Number	Lat	Lon	Dest. Port	L/B	Distance Reported (nm)	Time Reported (hrs)	Speed Reported (kts)	Instructed Speed (kts)	[Diff] Report - Instructed (kts)	Daily Perf. Spd (kts)	[Diff] Perf. Spd - Inst (kts)	Ship Heading
DEP	2016-06-14	0900	1606	35-59N	120-28E	YANGSHAN TERMINAL	Laden	---	---	---	12.5	---	---	---	---
NOON	2016-06-15	0400	1606	32-55N	122-52E	YANGSHAN TERMINAL	Laden	240	19.0	12.6	12.5	0.1	12.7	0.2	180
ARR	2016-06-15	1900	1606	30-27N	122-40E	YANGSHAN TERMINAL	Laden	167	13.5	12.4	---	---	---	---	---
DEP	2016-06-17	1000	1607	30-32N	122-19E	ZHUHAI	Ballast	---	---	---	12.5	---	---	---	---
NOON	2016-06-18	0400	1607	27-30N	121-38E	ZHUHAI	Ballast	227	18.0	12.6	12.5	0.1	12.7	0.2	216
NOON	2016-06-19	0400	1607	23-40N	117-54E	ZHUHAI	Ballast	311	24.0	13.0	12.5	0.5	12.7	0.2	226
ARR	2016-06-20	0400	1607	21-44N	113-23E	ZHUHAI	Ballast	278	22.0	12.6	---	---	---	---	---
DEP	2016-06-23	0400	1607	21-51N	113-13E	SINGAPORE	Laden	---	---	---	12.5	---	---	---	---
NOON	2016-06-24	0400	1607	17-16N	111-19E	SINGAPORE	Laden	302	24.0	12.6	12.5	0.1	12.7	0.2	211
NOON	2016-06-25	0400	1607	12-37N	110-11E	SINGAPORE	Laden	297	24.0	12.4	12.5	-0.1	12.7	0.2	180
NOON	2016-06-26	0400	1607	08-31N	109-27E	SINGAPORE	Laden	269	24.0	11.2	12.5	-1.3	12.7	0.2	200
NOON	2016-06-27	0400	1607	04-45N	106-32E	SINGAPORE	Laden	286	24.0	11.9	12.5	-0.6	12.7	0.2	225
ARR	2016-06-28	0242	1607	01-17N	104-04E	SINGAPORE	Laden	263	22.0	12.0	---	---	---	---	---
DEP	2016-06-30	0630	1607	01-11N	103-49E	TANJUNG PELEPAS	Laden	---	---	---	12.5	---	---	---	---
ARR	2016-06-30	0948	1607	01-11N	103-38E	TANJUNG PELEPAS	Laden	13	1.0	13.0	---	---	---	---	---
DEP	2016-07-01	0336	1608	01-14N	103-32E	SINGAPORE	Laden	---	---	---	12.5	---	---	---	---
ARR	2016-07-01	0448	1608	01-13N	103-36E	SINGAPORE	Ballast	9	1.2	7.2	---	---	---	---	---
DEP	2016-07-01	1642													

1. Daily performance management (2/4)

Data fields highlighted in red indicate missing relevant data.

You can modify data by double-clicking on the data fields, and inputting correct figures.

Modified data will then be reflected in the menu “2. Performance Evaluation”.

Definition of the thresholds: Threshold values (max, min) can be set up to easily flag incorrect values.

Vessel Name

Type	Date	UTC	speed (kts)	CP FO (mt)	CP DO/CO (mt)	NM/Ton (nm)	Ton/NM (mt)	Fuel Efficiency (%)	Distance Reported (nm)	Time Reported (hrs)	Speed Reported (kts)	Other ULS (mt)	RPM	Slip (%)
DEP	2016-05-05	1330	1.0	30.0	0.10	---	---	---	---	---	---	0	---	---
ARR	2016-05-06	0742	--	---	---	15.82	0.06	---	---	---	---	0	---	---
DEP	2016-05-06	1518	1.0	30.0	0.10	---	---	---	---	---	---	0	---	---
NOON	2016-05-07	1000	1.0	30.0	0.10	14.65	0.07	---	---	---	---	0	99.9	-4.5
NOON	2016-05-08	1000	1.0	30.0	0.10	15.34	0.07	50.63	---	---	---	0	99.7	-11.1
NOON	2016-05-09	1000	1.0	30.0	0.10	15.47	0.06	48.35	19.60	0	1.73	0	---	-14.1
ARR	2016-05-09	1330	--	---	---	---	---	---	0	3.02	0	0.34	---	9.8
DEP	2016-05-11	1324	1.0	30.0	0.10	---	---	---	---	---	---	---	---	---
NOON	2016-05-12	1100	1.0	30.0	0.10	13.62	0.07	37.54	18.29	0	1.53	0	---	-2.1
NOON	2016-05-13	1100	1.0	30.0	0.10	12.57	0.08	32.96	22.91	0	1.76	0	---	-2.4
NOON	2016-05-14	1200	1.0	30.0	0.10	13.96	0.07	42.82	21.88	0	1.76	0	---	-6.1
NOON	2016-05-15	1200	1.0	30.0	0.10	12.50	0.08	31.15	23.05	0	1.75	0	---	-3.7
NOON	2016-05-16	1300	1.0	30.0	0.10	10.66	0.09	21.87	25.84	0	1.83	0	---	6.1
NOON	2016-05-17	1400	1.0	30.0	0.10	10.85	0.09	30.43	23.59	0	1.75	0	---	10.1
NOON	2016-05-18	1500	1.0	30.0	0.10	11.86	0.08	---	24.71	0	1.86	0	---	0.1
NOON	2016-05-19	1500	1.0	30.0	0.10	---	---	---	---	---	---	0	---	---

Selection of the data to visualise in “Settings”:

- You can click and unclick the listed data fields and choose the ones you want to display.
- You have also the possibility to choose the period of time for which you would like to see the data (see the calendar on the screenshot below).

Vessel Name :

Type	Date	UTC	A/E FO (mt)	A/E DO/GO (mt)	A/E ULS (mt)	Other FO (mt)	Other DO/GO (mt)	Other ULS (mt)	RPM	Slip (%)	HP (kw)	TI
DEP	2016-04-27	0600	---	---	---	---	---	0	---	---	---	
NOON	2016-04-27	1900	0	1.00				0	110.6	17.62	---	
NOON	2016-04-28	1900	2.20	0.60				0	111.9	24.00	---	
NOON	2016-04-29	2000	2.90	0				0	110.5	19.35	---	
NOON	2016-04-30	2000	2.70	0		5.10		0	110.7	20.00	---	
NOON	2016-05-01	2100	3.00	0		0.90		0	111.8	-5.00	---	
NOON	2016-05-02	2100	2.70	0		7.50		0	111.6	-6.00	---	
NOON	2016-05-03	2200	2.70	0		10.00		0	110.9	-5.86	---	
NOON	2016-05-04	2200	0.90	3.00		1.10	0.90	0	110.1	-6.27	---	disregard
ARR	2016-05-05	0100	0	0.40				0	108.6	13.04	---	disregard
DEP	2016-05-08	2200	---	---	---	---	---	0	---	---	---	disregard
NOON	2016-05-09	2200	---	---	---	---	---	0	---	---	---	disregard

Threshold Download Chart Setting

Check for all Clear for all Period: 2015/Apr/01 - 2016/Oct/24

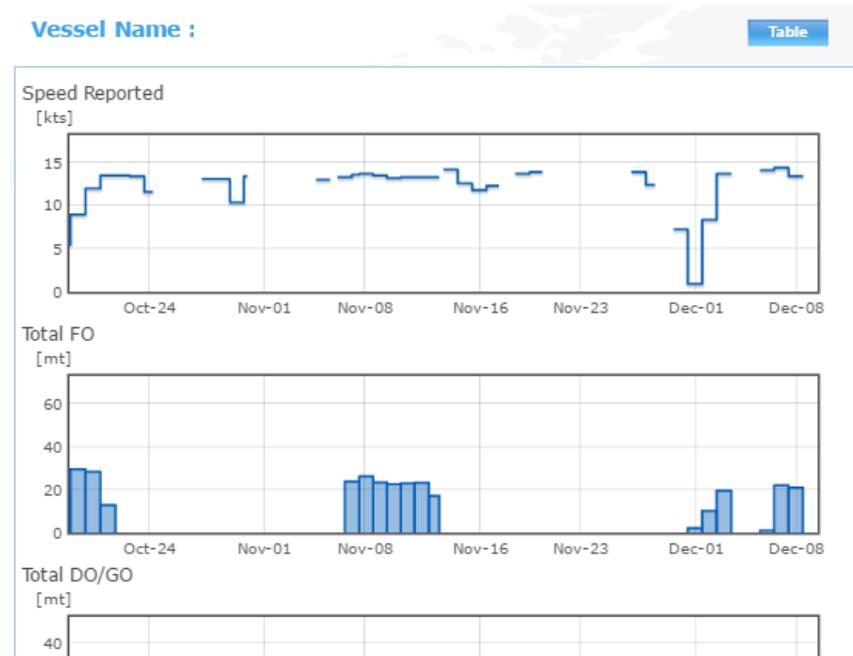
April 2015

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

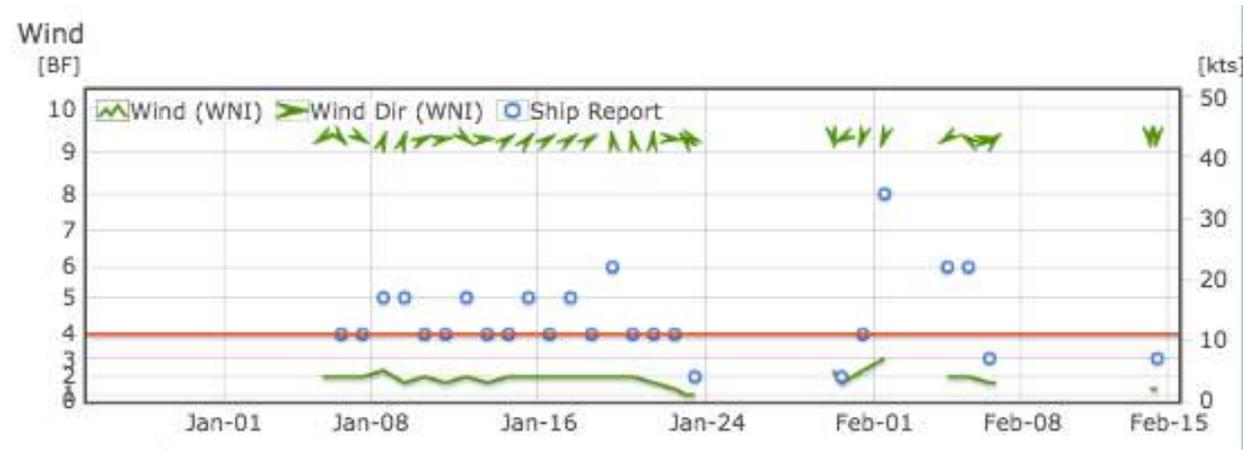
OK

Data can also be visualized in a chart format:

- ◆ Example of graphics showing reported data for Speed and Total FO consumption:



- ◆ Ship reported values are shown on wind and wave charts in addition to Weathernews verified weather data.



2. Performance Evaluation (1/2)

This menu is an update of your existing “Performance Evaluation”.

Ship speed and fuel consumption are analysed at each given RPM in calm sea conditions based on ship reported QRT data.

New features:

- ◆ Fuel consumption can be analysed for **Main Engine** and/or **Auxiliary Engine**.
- ◆ You can design a **“benchmark curve”** and use it as a reference scenario to be compared to the actual performance of your vessels.
For that, you need to send data to WNI (in a standard format provided by WNI), and WNI will add the benchmark curve in EXASITE.

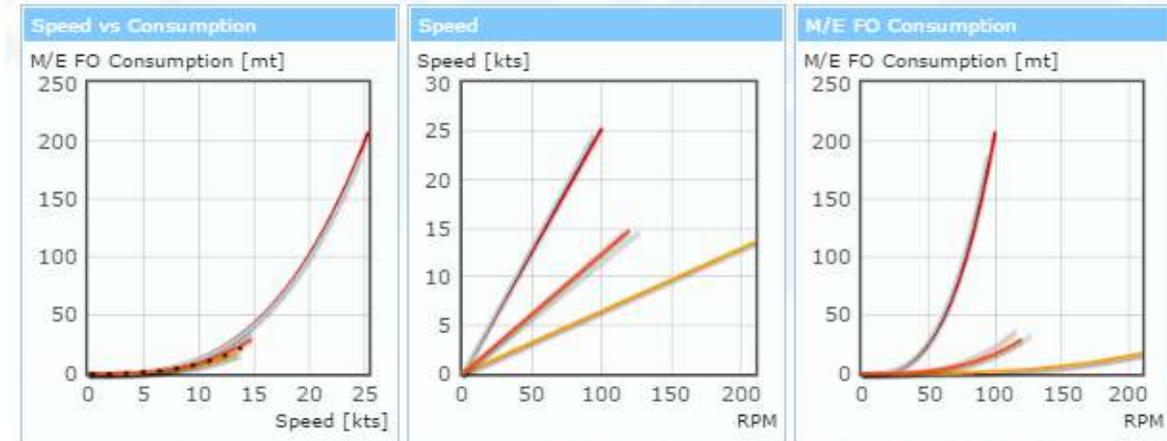
Conditions Adopted in this Analysis:

Mode: Last 12 Months | Deviation Range: 50% | Ship Report Type: Raw + Real Time | Draft: ~ m

Fuel Consumption: Main Engine Main Engine + Auxiliary Engine All

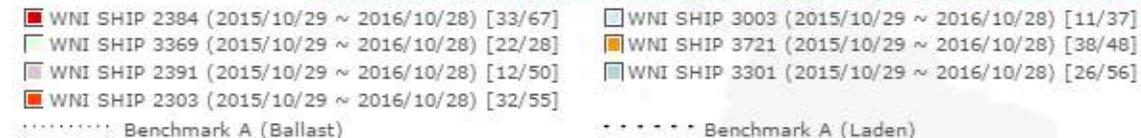
Weather: Fair Moderate Heavy Severe

Load Condition: Laden Ballast Both



Lighter colored graphs are based on less than 30 data points.

Benchmark in Speed graph and M/E FO consumption not available due to missing RPM.



2. Performance Evaluation (2/2)



Single Vessel Analysis:

Analysis charts included are:
 Daily Fuel Oil Consumption vs RPM
 Daily Speed vs RPM
 Fuel Oil Consumption vs Speed

Speed and consumption analysis table at each MCR (%) and RPM is also included



Multiple Vessel Analysis:

Multiple vessels can be compared on the charts and table with your preferred analysis parameters.

3. All Weather Performers Finder (1/2)

New menu: As in general charter party good weather days are confined to 20-30%, this menu was created to assist you to look into your fleet's latest performance and to find "good performers under adverse weather conditions".

Filtering Set-up

Choose 'Ship Name' or 'Ship Type' first, then use relevant parameters with your preferred thresholds.
Parameters left blank are not taken into account in data filtering for speed and consumption analysis.

Ships	Period	Sailing Condition
<input checked="" type="radio"/> Ship Name <input type="radio"/> Ship Type Ship Name: <input type="text"/> Max : 10 vessels	<input type="radio"/> Last 3 months <input type="radio"/> Last 6 months <input checked="" type="radio"/> Last 12 months <input type="radio"/> From / To Dates <input type="text"/> - <input type="text"/> Voyage Number / Code: <input type="text"/> Loading: <input type="radio"/> Laden <input type="radio"/> Ballast <input checked="" type="radio"/> Laden + Ballast	Speed (kts): <input type="text"/> - <input type="text"/> RPM: <input type="text" value="103"/> - <input type="text" value="108"/> Output (%): <input type="text"/> - <input type="text"/> Displacement (MT): <input type="text"/> - <input type="text"/> Fore draft (m): <input type="text"/> - <input type="text"/> Mid draft (m): <input type="text"/> - <input type="text"/> Aft draft (m): <input type="text"/> - <input type="text"/>
Ship Group: <input type="text"/>	<h3>Weather</h3> <input checked="" type="radio"/> Weathernews' verified Good Weather (up to & including) Wind BF ≤ <input type="text" value="5"/> Seas <input type="text"/> ≤ <input type="text"/> (m) Current: <input type="text"/>	<h3>Sample Data Range</h3> FO (MT): <input type="text" value="0"/> - <input type="text"/> DO/GO/ULS (MT): <input type="text" value="0"/> - <input type="text"/> Dep - 1st Noon ≥ <input type="text" value="12"/> hours Noon - Noon ≥ <input type="text" value="22"/> hours Last Noon - Arr ≥ <input type="text" value="12"/> hours

3. All Weather Performers Finder (2/2)

Filtering Set-up

Choose 'Ship Name' or 'Ship Type' first, then use relevant parameters with your preferred thresholds.
Parameters left blank are not taken into account in data filtering for speed and consumption analysis.

Ships reset

Ship Name:

Max: 10 vessels

- WNSHIP 20 ✖
- WNSHIP 21 ✖
- WNSHIP 22 ✖
- WNSHIP 23 ✖
- WNSHIP 24 ✖
- WNSHIP 25 ✖

Ship Group:

Period reset

Period: Last 3 months Last 6 months Last 12 months

From / To Dates: 2016/01/01 - 2016/06/01

Voyage Number / Code:

Loading: Laden Ballast

Sailing Condition reset

Speed (kts): -

RPM: -

Output (%): -

Displacement (MT): -

Fore draft (m): -

Mid draft (m): -

Aft draft (m): -

Weather reset

Weather Data:

Good Weather: (up to 5 including)

Wind BF: (m)

Sea: (m)

Current:

Sample Data Range reset

FO (HT): -

DO/GO/ULS (MT): -

Dep - 1st Noon: hours

Noon - Noon: hours

Last Noon - Arr: hours

Make Analysis

The user can input the preferred ship name(s) or ship type, with other filtering parameters and threshold values. Clicking on the “Make Analysis” button provides the user with analysis figures.

Filtering Set-up

Period: 2016/01/01 - 2016/06/01 | Loading: Laden
FO: 0 - (HT) | DO/GO/ULS: 0 - (MT) | Dep - 1st Noon: ≥ 12 hours | Noon - Noon: ≥ 22 hours | Last Noon - Arr: ≥ 12 hours

Good Weather: Wind BF (WN): ≤ 4 | Current (WN): —

Daily details data can be downloaded by clicking on your preferred ship name row. Outside ECA Inside ECA [Download](#)

Ship Name	DWT (Tons)	All Weather					Good Weather				
		M/E FO	A/E FO	DO/GO ULS	Speed	Num. of Reports	M/E FO	A/E FO	DO/GO ULS	Speed	Num. of Reports
WNSHIP 22	48866	28.45	2.22	0.43	13.53	32	28.43	2.2	0.48	13.53	30
WNSHIP 25	48846	26.45	1.78	0.03	14.2	25	26.39	1.78	0.03	14.4	20
WNSHIP 31	48846	26.41	2.05	0.1	12.42	14	26.52	2.07	0.12	12.57	12
WNSHIP 30	46547	24.26	1.8	0.12	12.67	40	24.12	1.8	0.12	12.85	36
WNSHIP 33	46847	24.01	1.98	0.12	11.99	26	24.05	1.98	0.12	12.01	23
WNSHIP 34	46592	19.89	1.72	0.02	13.13	28	19.71	1.72	0.02	13.16	23

The analysis table is made for All Weather / Good Weather conditions.

The overall analysis, as well as the daily ship reports, can be downloaded in Excel format by clicking on vessel names.

4. Voyage Performance Evaluation (1/3)

New menu: Utilizing ship reports, this menu allows you to get a **summary of the performance of the vessels for each voyage**, in good weather conditions and all weather conditions.

The user can input the ship name(s) and time period in the filtering panel.

Clicking on the “Make Analysis” button provides the user with a summary table with filtered ships and analysis values.

The screenshot displays a web application interface for 'Filtering Set-up'. On the left is a vertical navigation menu with the following items: 'Daily Performance Management', 'Performance Evaluation', 'Maintenance Records', 'All Weather Based', 'CP Warranty Based', and 'Voyage Performance Evaluation' (which is highlighted with a blue circle). The main content area is titled 'Filtering Set-up' and is divided into two columns: 'Ships' and 'Period'.
The 'Ships' column includes a 'Ship Name' input field, a 'reset' button, radio buttons for 'Ship Name' (selected) and 'Ship Type', a 'Max : 10 vessels' limit, a list of selected ships ('ULTRA LETIZIA' and 'ULTRA COLONSAY'), and a 'Ship Group' dropdown menu.
The 'Period' column includes a 'reset' button, radio buttons for 'Last 3 months', 'Last 6 months' (selected), and 'Last 12 months', a 'From / To Dates' section with two input fields and a hyphen, and a 'Voyage Number / Code' input field.
At the bottom center of the 'Filtering Set-up' panel is a blue 'Make Analysis' button.

4. Voyage Performance Evaluation (2/3)

For each vessel, the user can see the list of voyages performed during the selected period of time, as well as the performance of the vessel during these voyages.

If you click on the vessel name, you will be redirected to the menu “1. Daily performance management”, where you can see the list of all noon reports of the vessel.

Filtering Set-up

Good Weather : Current : ALL , BF ≤ 4

OutsideECA InsideECA

Download Setting

	Ship Name	Voyage Code	Departure		Arrival		L/B	All Weather							Good W			
			Port	DateTime (UTC)	Port	DateTime (UTC)		Speed	M/E FO (/day)	A/E FO (/day)	A/E DO/GO/ ULS (/day)	ME RPM	ME Output %	#of Report	Speed	M/E FO (/day)	A/E FO (/day)	A/ DO/ ULS (/d
	MEDI OKINAWA	51 L	SAN LORENZO	2016-08-01 09:00	PORT ELIZABETH	2016-08-17 14:06	Laden	10.4	19.67	1.94	-	95.3	-	16	10.4	19.67	1.94	-
		51	PORT ELIZABETH	2016-08-18 05:48	SINGAPORE	2016-09-07 09:42	Laden	11.0	19.35	1.97	0.01	96.8	-	22	11.0	19.39	1.98	0.0
		051 L	SINGAPORE	2016-09-08 11:30	CAI LAN	2016-09-13 04:48	Laden	11.5	19.68	2.03	0.00	96.7	-	5	11.7	19.69	2.07	0.0
		052 L	CAI LAN	2016-09-21 16:48	TAICANG	2016-10-13 20:24	Laden	11.9	18.97	1.84	0.00	96.5	-	14	12.0	19.03	1.85	0.0
		V.201663	TAICANG	2016-10-18 01:48	BALBOA	-	Laden	10.7	23.67	2.09	0.04	96.4	-	4	10.7	23.67	2.09	0.0
		Total							11.1	19.62	1.94	0.01	96.3	-	61	11.1	19.67	1.95

4. Voyage Performance Evaluation (3/3)

You can also download the data in **Excel format** by clicking on the symbol next to the ship name.

Vessel Name : Ship A

Filtering Set-up

Good Weather : Current : ALL , BF ≤ 4

OutsideECA I

Ship Name	Voyage Code	Departure		Arrival	
		Port	DateTime (UTC)	Port	DateTime (UTC)
MEDI OKTNAWA	51 L	SAN LORENZO	2016-08-01 09:00	PORT ELIZABETH	2016-08-14 06:00
	51	PORT ELIZABETH	2016-08-18 05:48	SINGAPORE	2016-09-09 09:42
	051 L	SINGAPORE	2016-09-08 11:30	CAI LAN	2016-09-04 04:48
	052 L	CAI LAN	2016-09-21 16:48	TAICANG	2016-10-13 20:24
V.201663	TAICANG	2016-10-18 01:48	BALBOA	-	-
Total					

Voyage Number	V.201663	052 L	051 L	51	51 L	
Departure Time	2016-10-18 01:48	2016-09-21 16:48	2016-09-08 11:30	2016-08-18 05:48	2016-08-01 09:00	
Arrival Time	-	2016-10-13 20:24	2016-09-13 04:48	2016-09-07 09:42	2016-08-17 14:06	
Departure Port	TAICANG	CAI LAN	SINGAPORE	PORT ELIZABETH	SAN LORENZO	
Arrival Port	YANGZHOU	-	-	-	-	
Loading Condition	Laden	Laden	Laden	Laden	Laden	
All Weather	Distance	-	3788	1285	5302	3772
	Time	-	318.9	111.5	480.2	381.0
	Speed	-	11.9	11.5	11.0	10.4
	FO (Total)	-	275.69	98.54	407.78	325.48
	FO (/day)	-	20.75	21.21	20.38	21.64
	DO/GO/ULSFO (Total)	-	-	-	-	-
	DO/GO/ULSFO (/day)	-	-	-	-	-
	M/E FO (Total)	-	252.02	91.43	387.22	295.81
	M/E FO (/day)	-	18.97	19.68	19.35	19.67
	A/E FO (Total)	-	24.50	9.43	39.42	29.18
	A/E FO (/day)	-	1.84	2.03	1.97	1.94
	Weather Factor	-	0.7	0.4	0.1	-0.8
	Current Factor	-	0.1	0.0	-0.3	0.2
	Performance Speed	-	11.1	11.1	11.2	11.0
	A/E DO/GO/ULS (Total)	-	-	-	-	-
	A/E DO/GO/ULS (/day)	-	-	-	-	-
ME RPM	-	96.5	96.7	96.8	95.3	
ME Output	-	-	-	-	-	

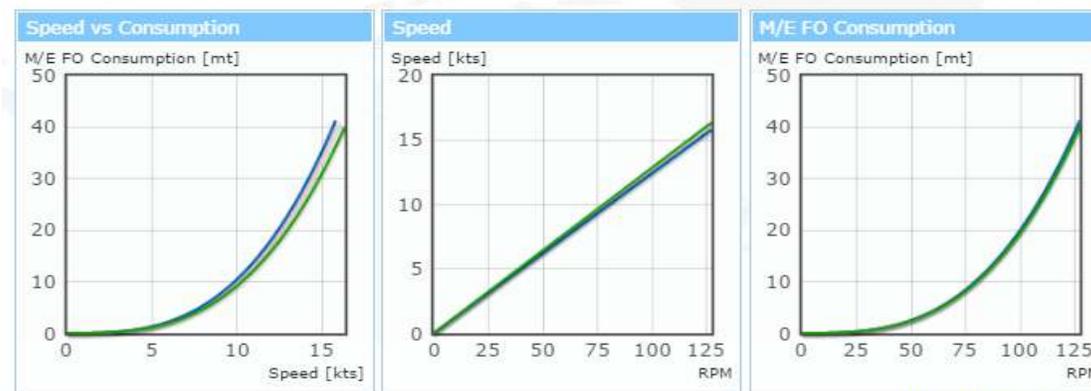
Conditions Adopted in this Analysis:

Mode: Event-Divided Period Comparison | Selected Ship: WNISHIP 34 | Deviation Range: 50% | Ship Report Type: WNI Verified + Raw | Draft: ~ m

Fuel Consumption: Main Engine Main Engine + Auxiliary Engine All

Weather: Fair Moderate Heavy Severe

Load Condition: Laden Ballast Both



[Maintenance Record](#)

Lighter colored graphs are based on less than 30 data points.

Benchmark in Speed graph and M/E FO consumption not available due to missing RPM.

Period 1 (2011/03/18 ~ 2012/03/18) [13/38]

Period 2 (2012/03/26 ~ 2014/10/29) [354/574]

Period 3 (2014/11/12 ~ 2017/01/05) [259/528]

[csv file download](#)

Performance Analysis based on Ship Reports

			RPM								Speed		
			35.6	38.0	40.5	43.2	45.9	48.8	51.8	54.9	58.1		
		RPM	90	92	94	96	98	100	102	104	106		
Speed (kts)	Period 1	1	11.4	11.6	11.9	12.1	12.4	12.6	12.9	13.1	13.4		
	Period 2	0	11.2	11.5	11.7	12.0	12.2	12.4	12.7	12.9	13.2		
	Period 3	3	11.6	11.8	12.1	12.4	12.6	12.9	13.1	13.4	13.6		
M/E FOC(mt)	Period 1	7	14.6	15.6	16.7	17.7	18.9	20.1	21.3	22.6	23.9		
	Period 2	7	14.7	15.7	16.7	17.8	19.0	20.2	21.4	22.7	24.0		
	Period 3	3	14.3	15.3	16.3	17.3	18.4	19.6	20.8	22.0	23.3		

5. CP WARRANTY BASED PERFORMERS FINDER (1/5)

This menu is an update of your existing “CP warranty analysis” menu.

Utilizing **VAR (Voyage Audit Reports)**, this menu picks up vessels meeting the different filters you set up (ship name, ship type, ship size, period of analysis, loading, wind BF, current, speed, etc.) and shows:

- * the average speed and consumption during your specified period
- * your colleagues comments

The screenshot shows a web-based filtering interface for 'CP Warranty'. It has a top navigation bar with 'Filtering Set-up' and 'CP Warranty'. The main area is divided into three columns:

- Ships:** Includes radio buttons for 'Ship Name' (selected) and 'Ship Type'. A text input field for 'Ship Name' is present. Below it, it says 'Max : 10 vessels'. At the bottom, there is a 'Ship Group' dropdown menu with options: 'All Ships', 'test', 'Tanker', and 'Dry'.
- Period:** Includes radio buttons for 'Last 3 months', 'Last 6 months' (selected), 'Last 12 months', and 'From / To Dates'. There are text inputs for 'Voyage Number / Code', 'Dep. Port', and 'Arr. Port'.
- Speed & Consumption Warranty:** Includes radio buttons for 'Full Speed' (selected) and 'Eco Speed'. There are text inputs for 'Speed (kts)', 'FO (mt/day)', and 'DO (mt/day)'.

At the bottom, there is a 'CP Good Weather Definition' section with dropdowns for 'Wind BF' (set to 5), 'Waves' (set to DSS), 'DSS', 'Wave Height' (with a unit '(m)'), and 'Current'. At the very bottom, there are 'Make Analysis' and 'Cancel' buttons.

5. CP WARRANTY BASED PERFORMERS FINDER (2/5)

Window showing the results in a list format, based on your filtering options:

Key improvement: Possibility to filter voyage according to **CP Full Speed** or **CP Eco Speed**.

Filtering Set-up
CP Warranty

Ship Type : Tanker | Ship Size : Panamax (- 80000) | Year of Build : 2008/1 - 2014/1

Period : Last 6 months | Loading : Laden

Wind BF : ≤ 5 | DSS : ≤ | Current : ---

Speed : Full Speed (kts)

List
Chart

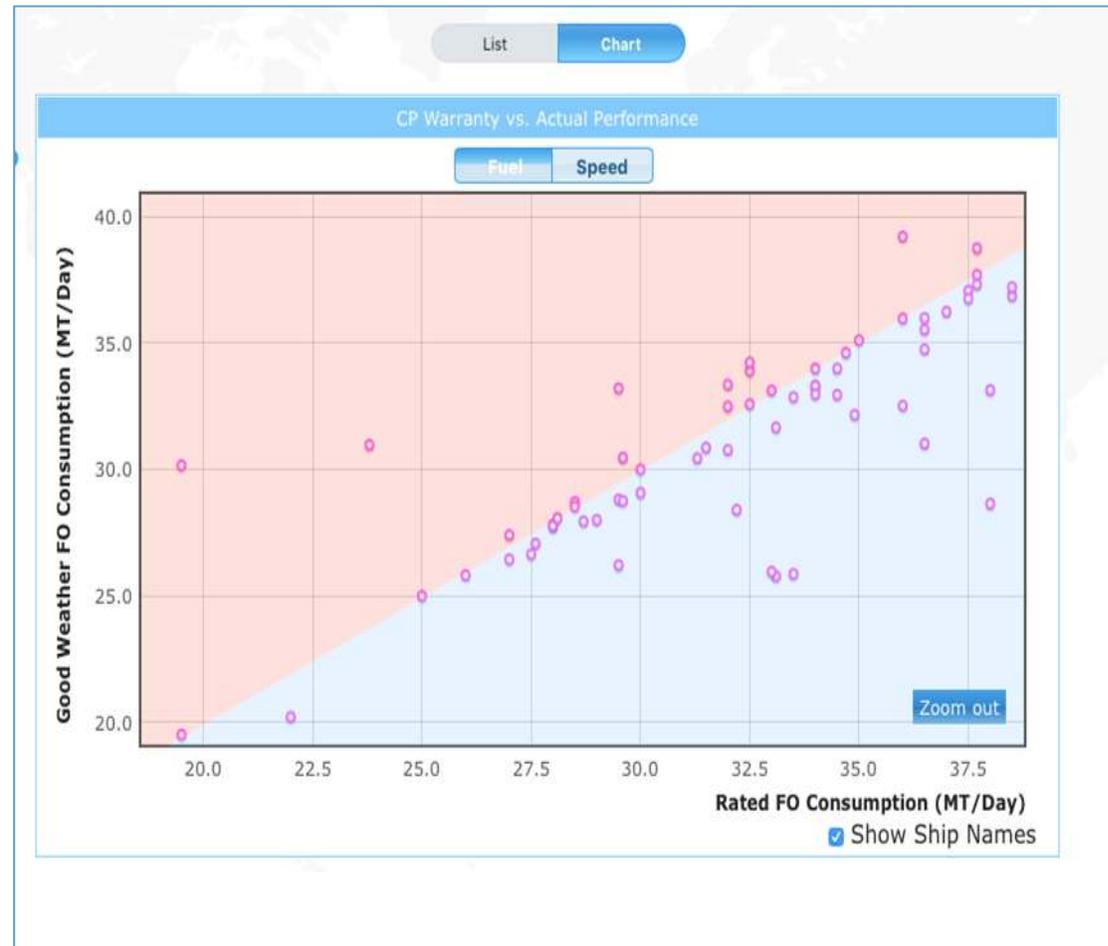
Download

	Ship Name	DWT	Charterparty Warranty Analysis						Internal Information Sharing				
			Performance Speed (kts)			Daily FO (MT/d)			Ops	Tech	Legal	Finance	Comment
			All Wx	Good Wx	CP	All Wx	Good Wx	CP					
1	Ship 32	57991	13.20	13.30	14.0	32.34	32.35	32.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
2	Ship 11	56047	12.12	12.12	12.5	24.88	26.53	25.0	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
3	Ship 21	55614	11.74	12.30	14	27.42	29.94	32.8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
4	Ship 43	58730	12.21	12.58	14.0	29.48	29.97	32.8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
5	Ship 30	57905	13.70	12.80	14	30.00	29.88	32.8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
6	Ship 10	55612	11.39	11.33	13	26.20	25.63	26.4	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
7	Ship 17	56111	13.10	13.70	14.0	29.97	29.98	30.0	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

5. CP WARRANTY BASED PERFORMERS FINDER (3/5)

Window showing the results in a chart format, based on your filtering options:

Each dot on the chart represents a ship. You can zoom in on preferred vessels or speed/consumption range.



5. CP WARRANTY BASED PERFORMERS FINDER (4/5)

If you click on a vessel name, the page below opens and you can see the the history of voyages of this vessel, and download VAR. **This page is very similar to the one you have today.**

A few key improvements:

- Separation between Inside ECA / Outside ECA
- Possibility to add comments (Ops, Tech, Legal, Finance)

Filtering Set-up **CP Warranty**

Ship Name : **Search**

Analysis Period : 2016/01/31 - 2016/07/29

Good weather definition employed on each voyage may vary. It can be confirmed in each report and/or CP Warranty Analysis History table to be downloaded.

Loss / Saving Total Time: 34.6 hours saving , FO: 16.56 mt saving , DO: 7.56 mt saving

Good Weather Analysis Summary

	Outside ECA (/day)					Inside ECA (/day)			
	Speed	FO	DO	RPM	Slip(%)	Speed	DO	RPM	Slip(%)
Ballast	13.95	29.04	0.07	108.72	7.74				
Laden	11.75	25.94	0.05	102.90	18.96				

CP Warranty Analysis History **Download**

	Voyage Info						Carterparty Warranty Analysis						Internal Information Sharing				
	Voy	L/B	Departure Port	ATD	Arrival Port	ATA	Performance Speed (kts)			Daily FO (mt/d)			Ops	Tech	Legal	Finance	Edit
							All Wx	Good Wx	CP	All Wx	Good Wx	CP					
		B	NING DE	2016/07/23T04:00:00	SURIGAO	2016/07/26T22:00:00	12.7	0.0	13	24.00	0.0	23.6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	091	L	17.35N 124.50E	2016/07/02T05:45:00	NINGDE	2016/07/04T06:30:00	12.5	12.9	14	32.14	32.24	32.8	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	091	L	SURIGAO	2016/06/30T09:00:00	17.35N 124.50E	2016/07/02T05:45:00	11.9	0.0	13.00	24.50	0.0	26.60	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		B	NING DE	2016/06/14T09:00:00	SURIGAO	2016/06/18T00:30:00	13.3	14.0	14.5	26.53	32.42	33.5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
		L	SURIGAO	2016/06/04T05:48:00	NING DE	2016/06/08T09:24:00	11.1	11.5	12.0	24.59	24.57	25.0	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	090	B	19.84N 115.14E	2016/05/19T04:00:00	SURIGAO	2016/05/21T23:12:00	14.0	14.2	14.5	31.85	32.16	33.5	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
	090	B	HONG KONG	2016/05/18T15:42:00	19.84N 115.14E	2016/05/19T04:00:00	13.5	0.0	13.00	23.90	0.0	23.60	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Internal Share Information

Your comment

Team	Score	Comment
<input type="radio"/> Operations <input type="radio"/> Technical <input type="radio"/> Legal <input type="radio"/> Finance	<input type="radio"/> ● <input type="radio"/> ● <input type="radio"/> ●	<input type="text" value="input your comment"/> Save

History

Date (UTC)	Team	Score	Findings	PIC
No Data				

Close

5. CP WARRANTY BASED PERFORMERS FINDER (5/5)

Users can **download** past Voyage Audit Report (VAR) records in **EXCEL format** by clicking on “Download”, as well as VAR reports by clicking on the little symbol on the left next to each voyage.

CP Warranty Analysis History

Ship Name

Loss / Saving Total

Time	FO	DO
34.6 hours saved	16.56 mt under-consumed	7.56 mt under-consumed

Good Weather Analysis

	Outside ECA				Inside ECA				
	Speed	FO	DO	RPM	Slip (%)	Speed	DO	RPM	Slip (%)
Ballast	13.95	29.04	0.07	108.72	7.74				
Laden	11.75	25.94	0.05	102.9	18.96				

CP Warranty Analysis History

Voyage Information		Loss/Saving (Minus: Saving)			Good Weather Analysis & Entire Voyage Analysis										Good Weather Definition			Speed									
L/B	Voy #	Eco Speed	Dep Port	ATD	Arr Port	ATA	Time (hrs)	FO (mt)	DO (mt)	Analysis	Dist (nm)	Time (hrs)	Avg Speed	Weather Factor	Current Factor	Pert Speed	RPM	SLIP	FO Total (mt)	DO Total (mt)	Daily FO (mt)	Daily DO (mt)	Wind (kts)	Seas (m)	Current	Speed (kts)	
B		U	NING DE	2016/07/23T04:00:00	SURIGAO	2016/07/26T22:00:00	0	0	0	Good Weather Entire Voyage	1131	90	12.6	0.2	12.7	100.2	12.86	90.01	0.19	24	0.05	4	2	NonAdv	13		
L	91	U	17.35N 124.50E	2016/07/02T05:45:00	NINGDE	2016/07/04T06:30:00	2.2	0	-0.19	Good Weather Entire Voyage	614	48.3	13.3	0	12.9	114.5	19.84	62.2	0.18	32.24	0.09	4	2	NonAdv	14		
L	91	E	SURIGAO	2016/06/30T09:00:00	17.35N 124.50E	2016/07/02T05:45:00	0	0	0	Good Weather Entire Voyage	644	48.8	13.2	0.3	12.5	114.5	20.19	65.35	0.21	32.14	0.1	0	0	4	2	NonAdv	13
B		U	NING DE	2016/06/14T09:00:00	SURIGAO	2016/06/18T00:30:00	0	0	-0.48	Good Weather Entire Voyage	504	44.8	11.3	0.1	11.9	100.1	21.93	45.74	0.07	24.5	0.04	0	0	4	2	NonAdv	14.5
										Good Weather Entire Voyage	298	20.5	14.5	0	14	113.5	11.39	27.69	0.04	32.42	0.05	4	2	NonAdv	14.5		
										Good Weather Entire Voyage	1140	87.5	13	-0.2	13.3	103.5	12.85	96.74	0.28	26.53	0.08						

Filtering Set-up CP Warranty

Ship Name :

Analysis Period : 2016/01/31 - 2016/07/29

Good weather definition employed on each voyage may vary. It can be confirmed in each report and/or CP Warranty Analysis History table to be downloaded.

Loss / Saving Total Time: 34.6 hours saving , FO: 16.56 mt saving , DO: 7.56 mt saving

Good Weather Analysis Summary

	Outside ECA (/day)				Inside ECA (/day)				
	Speed	FO	DO	RPM	Slip (%)	Speed	DO	RPM	Slip (%)
Ballast	13.95	29.04	0.07	108.72	7.74				
Laden	11.75	25.94	0.05	102.90	18.96				

CP Warranty Analysis History

Voy	L/B	Departure Port	ATD	Arrival Port	ATA	Performance Speed (kts)			Daily FO (mt/d)			Internal Information Sharing							
						All Wx	Good Wx	CP	All Wx	Good Wx	CP	Ops	Tech	Legal	Finance	Edit			
	B	NING DE	2016/07/23T04:00:00	SURIGAO	2016/07/26T22:00:00	12.7	0.0	13	24.00	0.0	23.6								
091	L	17.35N 124.50E	2016/07/02T05:45:00	NINGDE	2016/07/04T06:30:00	12.5	12.9	14	32.14	32.24	32.8								
091	L	SURIGAO	2016/06/30T09:00:00	17.35N 124.50E	2016/07/02T05:45:00	11.9	0.0	13.00	24.50	0.0	26.60								
	B	NING DE	2016/06/14T09:00:00	SURIGAO	2016/06/18T00:30:00	13.3	14.0	14.5	26.53	32.42	33.5								
	L	SURIGAO	2016/06/04T05:48:00	NING DE	2016/06/08T09:24:00	11.1	11.5	12.0	24.59	24.57	25.0								
090	B	19.84N 115.14E	2016/05/19T04:00:00	SURIGAO	2016/05/21T23:12:00	14.0	14.2	14.5	31.85	32.16	33.5								
090	B	HONG KONG	2016/05/18T15:42:00	19.84N 115.14E	2016/05/19T04:00:00	13.5	0.0	13.00	23.90	0.0	23.60								

Filtering Set-up

Choose 'Ship Name' or 'Ship Type' first, then use relevant parameters with your preferred thresholds.
Parameters left blank are not taken into account in data filtering for speed and consumption analysis.

Ships	Period	Sailing Condition
<div style="display: flex; justify-content: space-between; align-items: center;"> Ship Name <input checked="" type="radio"/> Ship Name <input type="radio"/> Ship Type </div> <input style="width: 100%; margin-top: 5px;" type="text"/> <p style="font-size: small; margin-top: 5px;">Max : 10 vessels</p> <div style="border: 1px solid #ccc; height: 150px; margin-top: 5px;"></div> <div style="margin-top: 5px;"> Ship Group <input style="width: 80%;" type="text"/> </div>	<div style="display: flex; justify-content: space-between; align-items: center;"> Period reset </div> <div style="margin-top: 5px;"> <input type="radio"/> Last 3 months <input type="radio"/> Last 6 months <input checked="" type="radio"/> Last 12 months <input type="radio"/> From / To Dates </div> <div style="margin-top: 5px;"> <input style="width: 100%;" type="text"/> </div> <div style="margin-top: 5px;"> Voyage Number / Code <input style="width: 100%;" type="text"/> </div> <div style="margin-top: 5px;"> Loading <input type="radio"/> Laden <input type="radio"/> Ballast <input checked="" type="radio"/> Laden + Ballast </div>	<div style="display: flex; justify-content: space-between; align-items: center;"> Sailing Condition reset </div> <div style="margin-top: 5px;"> Speed (kts) <input style="width: 40%;" type="text"/> - <input style="width: 40%;" type="text"/> </div> <div style="margin-top: 5px;"> RPM <input style="width: 40%; text-align: center; value: 103;" type="text"/> - <input style="width: 40%; text-align: center; value: 108;" type="text"/> </div> <div style="margin-top: 5px;"> Output (%) <input style="width: 40%;" type="text"/> - <input style="width: 40%;" type="text"/> </div> <div style="margin-top: 5px;"> Displacement (MT) <input style="width: 40%;" type="text"/> - <input style="width: 40%;" type="text"/> </div> <div style="margin-top: 5px;"> Fore draft (m) <input style="width: 40%;" type="text"/> - <input style="width: 40%;" type="text"/> </div> <div style="margin-top: 5px;"> Mid draft (m) <input style="width: 40%;" type="text"/> - <input style="width: 40%;" type="text"/> </div> <div style="margin-top: 5px;"> Aft draft (m) <input style="width: 40%;" type="text"/> - <input style="width: 40%;" type="text"/> </div>
<div style="display: flex; justify-content: space-between; align-items: center;"> Weather reset </div> <div style="margin-top: 5px;"> Weather Data <input style="width: 100%;" type="text" value="Weathernews' verified"/> </div> <div style="margin-top: 5px;"> Good Weather (up to & including) </div> <div style="margin-top: 5px;"> Wind BF ≤ <input style="width: 40%; text-align: center; value: 5;" type="text"/> </div> <div style="margin-top: 5px;"> Seas <input style="width: 40%;" type="text"/> ≤ <input style="width: 40%;" type="text"/> (m) </div> <div style="margin-top: 5px;"> Current <input style="width: 40%;" type="text"/> </div>	<div style="display: flex; justify-content: space-between; align-items: center;"> Sample Data Range reset </div> <div style="margin-top: 5px;"> FO (MT) <input style="width: 40%; text-align: center; value: 0;" type="text"/> - <input style="width: 40%;" type="text"/> </div> <div style="margin-top: 5px;"> DO/GO/ULS (MT) <input style="width: 40%; text-align: center; value: 0;" type="text"/> - <input style="width: 40%;" type="text"/> </div> <div style="margin-top: 5px;"> Dep - 1st Noon ≥ <input style="width: 40%; text-align: center; value: 12;" type="text"/> hours </div> <div style="margin-top: 5px;"> Noon - Noon ≥ <input style="width: 40%; text-align: center; value: 22;" type="text"/> hours </div> <div style="margin-top: 5px;"> Last Noon - Arr ≥ <input style="width: 40%; text-align: center; value: 12;" type="text"/> hours </div>	

Filtering Set-up

Period : Last 12 months | Loading : Laden

RPM : 103 - 108

FO : 0 - (MT) | DO/GO/ULS : 0 - (MT) | Dep - 1st Noon : ≥ 12 hours | Noon - Noon : ≥ 21 hours | Last Noon - Arr : ≥ 12 hours

Good Weather : Wind BF (WNI) : ≤ 5 | Current (WNI) : ---

Daily details data can be downloaded by clicking on your preferred ship name row.

Outside ECA

Inside ECA

[Download](#)

Ship Name	DWT (ton)	All Weather					Good Weather				
		M/E FO	A/E FO	DO/GO ULS	Speed	Num. of Reports	M/E FO	A/E FO	DO/GO ULS	Speed	Num. of Reports
WNISHIP 36	46590	23.74	1.79	0.02	12.42	39	23.6	1.78	0.02	12.38	34
WNISHIP 35	46646	23.34	1.81	0.03	12.98	17	23.36	1.8	0.04	13.15	15
WNISHIP 34	46592	22.02	1.76	0.79	13.12	20	22.02	1.76	0.79	13.12	20
WNISHIP 30	46547	21.47	1.82	0.09	12.88	24	21.47	1.82	0.09	12.88	24

DAILY PERFORMANCE MANAGEMENT

Distance Reported (nm)	Time Reported (hrs)	Speed Reported (kts)
Wind (BF) 2-3	Wave Height (m)	Swell Height (m)
M/E FO (mt)	M/E DO/GO (mt)	M/E ULS (mt)
A/E FO (mt)	A/E DO/GO (mt)	A/E ULS (mt)
Other FO (mt)	Other DO/GO (mt)	Other ULS (mt)
RPM		

OK

Vessel Name :

Type	Date	UTC	Voyage Number	Lat	Lon	Dest. Port	L/B	Distance Reported (nm)	Time Reported (hrs)	Speed Reported (kts)	Instructed Speed (kts)	[Diff] Report - Instructed (kts)	Daily Perf. Spd (kts)	[Diff] Perf. Spd - Inst (kts)	Ship Heading
DEP	2016-06-14										12.5	---	---	---	---
NOON	2016-06-15										12.5	0.1	12.7	0.2	180
ARR	2016-06-15										---	---	---	---	---
DEP	2016-06-17										12.5	---	---	---	---
NOON	2016-06-18										12.5	0.1	12.7	0.2	216
NOON	2016-06-19										12.5	0.5	12.7	0.2	226
ARR	2016-06-20										---	---	---	---	---
DEP	2016-06-23										12.5	---	---	---	---
NOON	2016-06-24										12.5	0.1	12.7	0.2	211
NOON	2016-06-25										12.5	-0.1	12.7	0.2	180
NOON	2016-06-26										12.5	-1.3	12.7	0.2	200
NOON	2016-06-27										12.5	-0.6	12.7	0.2	225
ARR	2016-06-28										---	---	---	---	---
DEP	2016-06-30										12.5	---	---	---	---
ARR	2016-06-30										---	---	---	---	---
DEP	2016-07-01										12.5	---	---	---	---
ARR	2016-07-01										---	---	---	---	---
DEP	2016-07-01										---	---	---	---	---

Check for all Clear for all

Period : 2016/Jan/18 - 2016/Jul/13

- Type
- Voyage Number
- Dest. Port
- Time Reported
- [Diff] Report - Instructed
- Ship Heading
- Wind (WNI)
- Swell Height (WNI)
- Weather Factor (WNI)
- Wind Dir
- Swell Dir
- Total DO/GO
- CP FO
- Ton/NM
- M/E DO/GO
- A/E DO/GO
- Other DO/GO
- Slip
- Output
- Cargo Weight

- Date
- Lat
- L/B
- Speed Reported
- Daily Perf. Spd
- Wind Dir (Relative) (WNI)
- Wave Height (WNI)
- Current Dir (WNI)
- Current Factor (WNI)
- Wind
- Swell Height
- Total ULS
- CP DO/GO
- Fuel Efficiency
- M/E ULS
- A/E ULS
- Other ULS
- HP
- Draft FWD
- Disregard

- UTC
- Lon
- Distance Reported
- Instructed Speed
- [Diff] Perf. Spd - Inst
- Wind Dir (WNI)
- Swell Dir (WNI)
- Current (WNI)
- Wind Dir (Relative)
- Wave Height
- Total FO
- CP Speed
- NM/Ton
- M/E FO
- A/E FO
- Other FO
- RPM
- Thermal Load
- Draft AFT

OK

Utilizing ship reports, this application analyze voyage-wise summary with the following categories.

- Good weather conditions and all weather conditions.
- Clicking on ship name shows “Daily Performance Management

Filtering Set-up

Good Weather : Current : ALL , BF ≤ 4

OutsideECA InsideECA

[Download](#) [Setting](#)

Ship Name	Voyage Code	Departure		Arrival		L/B	All Weather							Good W			
		Port	DateTime (UTC)	Port	DateTime (UTC)		Speed	M/E FO (/day)	A/E FO (/day)	A/E DO/GO/ULS (/day)	ME RPM	ME Output %	#of Report	Speed	M/E FO (/day)	A/E FO (/day)	A/DO/UL (/d
MEDI OKINAWA	51 L	SAN LORENZO	2016-08-01 09:00	PORT ELIZABETH	2016-08-17 14:06	Laden	10.4	19.67	1.94	-	95.3	-	16	10.4	19.67	1.94	-
	51	PORT ELIZABETH	2016-08-18 05:48	SINGAPORE	2016-09-07 09:42	Laden	11.0	19.35	1.97	0.01	96.8	-	22	11.0	19.39	1.98	0.0
	051 L	SINGAPORE	2016-09-08 11:30	CAI LAN	2016-09-13 04:48	Laden	11.5	19.68	2.03	0.00	96.7	-	5	11.7	19.69	2.07	0.0
	052 L	CAI LAN	2016-09-21 16:48	TAICANG	2016-10-13 20:24	Laden	11.9	18.97	1.84	0.00	96.5	-	14	12.0	19.03	1.85	0.0
	V.201663	TAICANG	2016-10-18 01:48	BALBOA	-	Laden	10.7	23.67	2.09	0.04	96.4	-	4	10.7	23.67	2.09	0.0
	Total							11.1	19.62	1.94	0.01	96.3	-	61	11.1	19.67	1.95

Note : this menu needs VAR (Voyage Audit Report) data which is provided when OSR or Charter party warranty analysis is utilized.

- a. Averaged speed and consumption capability during your specified periods
- b. Your colleagues' rating (red, yellow, and blue) and relevant findings

Filtering Set-up
CP Warranty

Ship Name :

Analysis Period : - Search

Good weather definition employed on each voyage may vary. It can be confirmed in each report and/or CP Warranty Analysis History table to be downloaded.

Loss / Saving Total Time: 34.6 hours saving , FO: 16.56 mt saving , DO: 7.56 mt saving

Good Weather Analysis Summary

	Outside ECA (/day)					Inside ECA (/day)			
	Speed	FO	DO	RPM	Slip(%)	Speed	DO	RPM	Slip(%)
Ballast	13.95	29.04	0.07	108.72	7.74				
Laden	11.75	25.94	0.05	102.90	18.96				

CP Warranty Analysis History Download

	Voyage Info						Carterparty Warranty Analysis						Internal Information Sharing				
	Voy	L/B	Departure Port	ATD	Arrival Port	ATA	Performance Speed (kts)			Daily FO (mt/d)			Ops	Tech	Legal	Finance	Edit
							All Wx	Good Wx	CP	All Wx	Good Wx	CP					
		B	NING DE	2016/07/23T04:00:00	SURIGAO	2016/07/26T22:00:00	12.7	0.0	13	24.00	0.0	23.6	●	●	●	●	
	091	L	17.35N 124.50E	2016/07/02T05:45:00	NINGDE	2016/07/04T06:30:00	12.5	12.9	14	32.14	32.24	32.8	●	●	●	●	
	091	L	SURIGAO	2016/06/30T09:00:00	17.35N 124.50E	2016/07/02T05:45:00	11.9	0.0	13.00	24.50	0.0	26.60	●	●	●	●	
		B	NING DE	2016/06/14T09:00:00	SURIGAO	2016/06/18T00:30:00	13.3	14.0	14.5	26.53	32.42	33.5	●	●	●	●	
		L	SURIGAO	2016/06/04T05:48:00	NING DE	2016/06/08T09:24:00	11.1	11.5	12.0	24.59	24.57	25.0	●	●	●	●	
	090	B	19.84N 115.14E	2016/05/19T04:00:00	SURIGAO	2016/05/21T23:12:00	14.0	14.2	14.5	31.85	32.16	33.5	●	●	●	●	
	090	B	HONG KONG	2016/05/18T15:42:00	19.84N 115.14E	2016/05/19T04:00:00	13.5	0.0	13.00	23.90	0.0	23.60	●	●	●	●	

