



## DESCRIPTION OF DAILY BUNKERS SURVEY MODULE

### BRIEF DESCRIPTION

With this option the user can track record of Bunker quantity measurements in every voyage as well as he can instantly re-calculate the quantities remaining on board.

In order the module to help the user to determine how much fuel and/on diesel oil the vessel has on board, the user must measure and input the contents of the vessel's fuel and diesel tanks and the module will calculate the accurate quantities on every tank, taking into account the necessary ullage/sounding corrections due to vessel's trim and list.

On receiving from Chief Engineer the following: Drafts / Heel and for each tank (Density/ Sound/ Temp) the user instantly can calculate the FO/DO Reports in order to monitor the Bunkers ROB. The program includes ship's FO/DO Calibration Tables and Trim/Heel corrections.

#### **Features of Daily Bunkers Survey Module for vessel and office application:**

- Definition of the vessels tanks categories as HSFO, LSFO, ULSFO, MDO, MGO, etc.
- Configuration of Sulphur Content
- Configuration of the Applied Correction Tables
- Support for tanks grouping into desired categories as per Grade
- Conversion from volume to mass
- Corrected Weight in Air or in Vacuum
- Density of the Bunkers can be corrected
- Differences between B.D.N. and Calculated Actual Quantities
- Print-out can be harmonized with your SMS Company's Forms
- In-house development
- Automatic synchronization of data between vessel and office
- Lifetime Support and Maintenance
- **CLARITY AND TRANSPARENCY** based on official shipyard's documentation (Sounding/Calibration Tables) endorsed by SMM (UK) Ltd. as 3<sup>rd</sup> party.

Please see below Screenshots:

Multiloader Daily Bunker Survey

File

Voyage  Port

Current Bunker Survey			
Date	Nov 13, 2017	Time	11:34
Draft FWD	<input type="text"/> m	Draft AFT	<input type="text"/> m
Trim (+ Stern)	<input type="text"/> Ev. Keel	List (+ Port)	<input type="text"/> °

Compartment	Full Volume (m <sup>3</sup> )	ASTM Units	Measurement	Density at 15°C or API at 60°F	Avg. Temp (°C or °F)	Observed Measurement (m)	Corrected Measurement (m)	Volume (m <sup>3</sup> )	Weight in Air (MT)
NO1 HFOBT P	915.50	Density at 15°C Table 54B	Ullage						
NO1 HFOBT S	915.50	Density at 15°C Table 54B	Ullage						
NO2 HFOBT P	475.70	Density at 15°C Table 54B	Ullage						
NO2 HFOBT S	932.60	Density at 15°C Table 54B	Ullage						
HFO SETT. T. P	81.90	Density at 15°C Table 54B	Ullage						
HFO SERV. T. S	79.70	Density at 15°C Table 54B	Ullage						
FO SLUDGE T. P	8.40	Density at 15°C Table 54B	Sound.						
FO OVERFL. T.P	41.00	Density at 15°C Table 54B	Sound.						
<b>TOTALS</b>								0.00	0.00
High Sulphur								0.00	0.00
Low Sulphur								0.00	0.00

Grade

High Sulphur Content  % m/m

Low Sulphur Content  % m/m

Fuel Oil  Diesel Oil

Weight in Vacuum  Exit

Multiloader Daily Bunker Survey

File

- New Survey Ctrl+N
- Open Survey Ctrl+O
- Save Survey Ctrl+S
- Delete Survey
- Print Survey Ctrl+P
- Import Surveys
- Export Surveys
- Define Compartment Groups
- Define Compartment Sulphur
- Define Compartment ASTM Units
- Auto retrieve latest Daily Survey
- Data Synchronization >
- Exit

Port

Current Bunker Survey			
Date	Nov 13, 2017	Time	11:34
Draft FWD	<input type="text"/> m	Draft AFT	<input type="text"/> m
Trim (+ Stern)	<input type="text"/> Ev. Keel	List (+ Port)	<input type="text"/> °

Measurement	Density at 15°C or API at 60°F	Avg. Temp (°C or °F)	Observed Measurement (m)	Corrected Measurement (m)	Volume (m <sup>3</sup> )	Weight in Air (MT)	
4B	Ullage						
4B	Ullage						
4B	Ullage						
4B	Ullage						
4B	Ullage						
4B	Ullage						
HFO SERV. T. S	79.70	Density at 15°C Table 54B	Ullage				
FO SLUDGE T. P	8.40	Density at 15°C Table 54B	Sound.				
FO OVERFL. T.P	41.00	Density at 15°C Table 54B	Sound.				
<b>TOTALS</b>						0.00	0.00
High Sulphur						0.00	0.00
Low Sulphur						0.00	0.00

Grade

High Sulphur Content  % m/m

Low Sulphur Content  % m/m

Fuel Oil  Diesel Oil

Weight in Vacuum  Exit

CONDITION :										
<u>FUEL OIL DAILY BUNKER SURVEY</u>										
Voyage: Port: Grade:										
Date: Nov 13, 2017 11:34						I N P U T	Trim: Even Keel		List: Zero List	
Compartment Units	Full Volume (m <sup>3</sup> )	Sul ph ur	Density 15°C OF API 60°F	Average Temp. (°C/°F)	V.C.F.		Observed Meas/ment (m)	Corrected Meas/ment (m)	Volume (m <sup>3</sup> )	Weight in Air MT
NO1 HFOBT P Density at 15°C Table 54B	915.50		0	0.00	0.00000	U	0.000	0.000	0.00	0.00
NO1 HFOBT S Density at 15°C Table 54B	915.50		0	0.00	0.00000	U	0.000	0.000	0.00	0.00
NO2 HFOBT P Density at 15°C Table 54B	475.70		0	0.00	0.00000	U	0.000	0.000	0.00	0.00
NO2 HFOBT S Density at 15°C Table 54B	932.60		0	0.00	0.00000	U	0.000	0.000	0.00	0.00
HFO SETT. T. P Density at 15°C Table 54B	81.90		0	0.00	0.00000	U	0.000	0.000	0.00	0.00
HFO SERV. T. S Density at 15°C Table 54B	79.70		0	0.00	0.00000	U	0.000	0.000	0.00	0.00
FO SLUDGE T. P Density at 15°C Table 54B	8.40		0	0.00	0.00000	S	0.000	0.000	0.00	0.00
FO OVERFL. T.P Density at 15°C Table 54B	41.00		0	0.00	0.00000	S	0.000	0.000	0.00	0.00
Sulphur Content							T O T A L S		0.00	0.00
High: 0 % m/m							HIGH SULPHUR		0.00	0.00
Low: 0 % m/m							LOW SULPHUR		0.00	0.00
<u>DIESEL OIL DAILY BUNKER SURVEY</u>										
Voyage: Port: Grade:										
Date: Nov 13, 2017 11:34						I N P U T	Trim: Even Keel		List: Zero List	
Compartment Units	Full Volume (m <sup>3</sup> )	Sul ph ur	Density 15°C OF API 60°F	Average Temp. (°C/°F)	V.C.F.		Observed Meas/ment (m)	Corrected Meas/ment (m)	Volume (m <sup>3</sup> )	Weight in Air MT
NO1 MGO STOR. P Density at 15°C Table 54B	298.20		0	0.00	0.00000	S	0.000	0.000	0.00	0.00
NO2 MGO STOR. P Density at 15°C Table 54B	284.70		0	0.00	0.00000	S	0.000	0.000	0.00	0.00
MGO SERV. TK P Density at 15°C Table 54B	56.50		0	0.00	0.00000	S	0.000	0.000	0.00	0.00
MGO DRAIN.TK P Density at 15°C Table 54B	3.40		0	0.00	0.00000	S	0.000	0.000	0.00	0.00
Sulphur Content							T O T A L S		0.00	0.00
High: 0 % m/m							HIGH SULPHUR		0.00	0.00
Low: 0 % m/m							LOW SULPHUR		0.00	0.00
MASTER/VESSEL'S SIGNATURE					CHIEF ENGINEER'S SIGNATURE					
NOTE: S = Sounding Input, U = Ullage Input										

**WE CAN SAIL TOGETHER.....**

**S.A. Malliaroudakis Maritime (UK) Ltd.**

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