

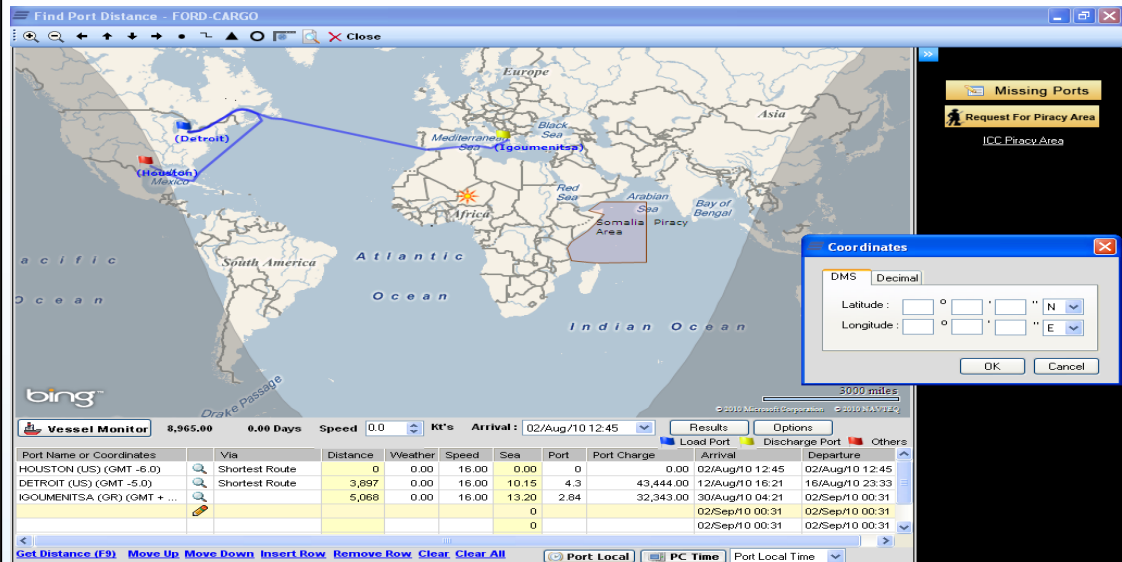
PRE - FIXTURE :

Pre-fixture is an advanced software solution designed to analyze the commercial viability of a proposed voyage. It is a system covering the wide spectrum of commercial and operational functionality needed by a modern shipping company to calculate profit/loss for a voyage.

Pre-fixture is developed on Microsoft .NET Platform & is a part of the Integrated Business Solution for shipping industry. It's a full-featured window as well as web based application for prefixing of any cargo to be transported.

Why PRE-FIXTURE ?

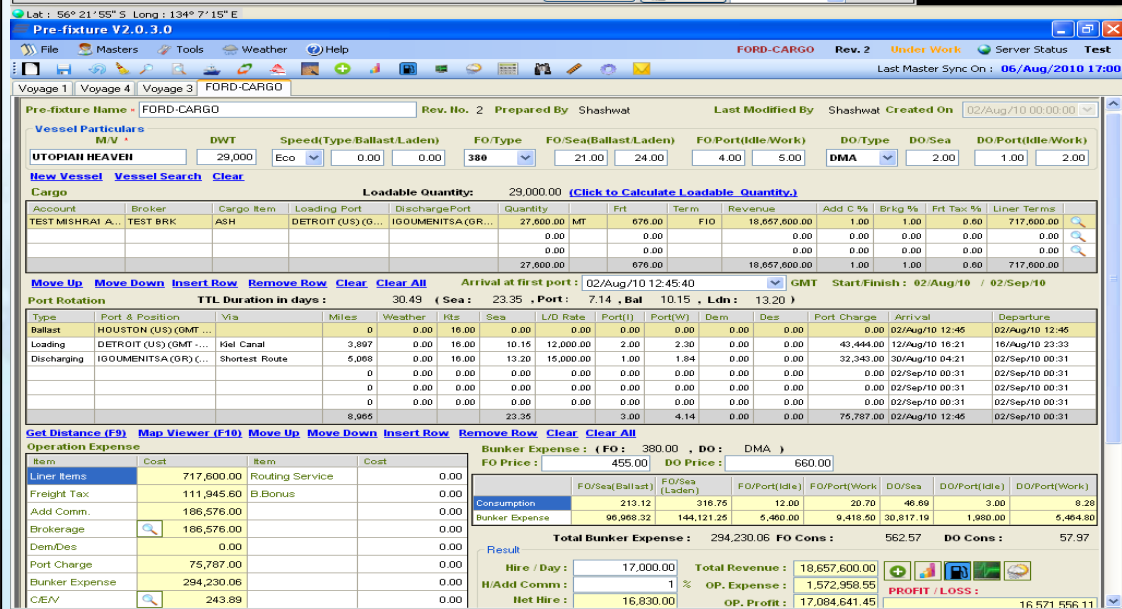
- Client-Server Architecture
- Integrated POST FIXTURE & Vessel tracker
- Rich GIS based distance features
- Business continuity process
- Service oriented architecture
- Dynamic GIS based route & distance editing UI
- Simulations
- Real time information
- Easy data flow & MIS communication
- Easy & exportable to excel Voyage comparisons



Find Port Distance - FORD-CARGO

Map showing route from Houston (US) to Iquimetsa (GR) via the Suez Canal. Coordinates: 56° 21' 55" S, 134° 7' 15" E.

Port Name or Coordinates	Via	Distance	Weather	Speed	Sea	Port	Port Charge	Load Port	Discharge Port	Others
HOUSTON (US) (GMT -6.0)	Shortest Route	0	0.00	16.00	0.00	0	0.00	02/Aug/10 12:45	02/Aug/10 12:45	
DETROIT (US) (GMT -5.0)	Shortest Route	3,697	0.00	16.00	10.15	4.3	43,444.00	12/Aug/10 16:21	16/Aug/10 23:33	
IGOUMETSIA (GR) (GMT + ...)	Shortest Route	5,068	0.00	16.00	13.20	2.84	32,343.00	30/Aug/10 04:21	02/Sep/10 00:31	



Pre-fixture V2.0.3.0

Voyage 1 | Voyage 4 | Voyage 3 | FORD-CARGO

Rev. No. 2 Prepared By: Sashwat Last Modified By: Sashwat Created On: 02/Aug/10 00:00:00

Vessel Particulars

M/V	DWT	Speed (Type:Ballast/Laden)	FO/Type	FO/Sea (Ballast/Laden)	FO/Port (Idle/Work)	DO/Type	DO/Sea	DO/Port (Idle/Work)
UTOPIAH HEAVEN	29,000	Eco 0.00	380	21.00	24.00	DMA	2.00	1.00 2.00

Cargo

Account	Broker	Cargo Item	Loading Port	Discharge Port	Quantity	MT	Frt	Term	Revenue	Add C %	Brkg %	Frt Tax %	Liner Terms
TEST MISHRAI A...	TEST BRK	ASH	DETROIT (US) (G...	IGOUMETSIA (GR...	27,600.00		0.00	FIO	18,657,500.00	0.00	0.00	0.00	0.00

Port Rotation

Type	Port & Position	Via	Miles	Weather	Kts	Sea	L/D Rate	Port(I)	Port(W)	Dem	Des	Port Charge	Arrival	Departure
Ballast	HOUSTON (US) (GMT ...		0	0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	02/Aug/10 12:45	02/Aug/10 12:45
Loading	DETROIT (US) (GMT ...	Suez Canal	3,697	0.00	16.00	10.15	12,000.00	2.00	2.30	0.00	0.00	43,444.00	12/Aug/10 16:21	16/Aug/10 23:33
Discharging	IGOUMETSIA (GR) (C...	Shortest Route	5,068	0.00	16.00	13.20	15,000.00	1.00	1.84	0.00	0.00	32,343.00	30/Aug/10 04:21	02/Sep/10 00:31

Get Distance (F9) Map Viewer (F10) Move Up Move Down Insert Row Remove Row Clear Clear All

Operation Expense

Item	Cost	Item	Cost
Liner Items	717,600.00	Routing Service	0.00
Freight Tax	111,945.60	B Bonus	0.00
Add Comm.	186,576.00		0.00
Brokerage	186,576.00		0.00
Dem/Des	0.00		0.00
Port Charge	75,787.00		0.00
Bunker Expense	294,230.06		0.00
CEV	243.89		0.00

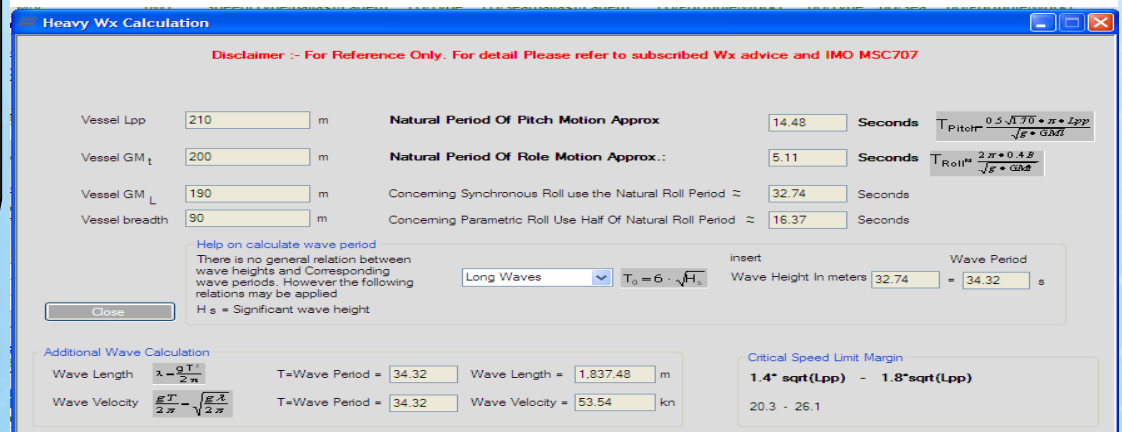
Bunker Expense: (FO: 380.00, DO: DMA)

Consumption	FO/Sea (Ballast)	FO/Sea (Laden)	FO/Port (Idle)	FO/Port (Work)	DO/Sea	DO/Port (Idle)	DO/Port (Work)
213.12	316.75	12.00	20.70	46.89	3.00	8.28	8.28

Total Bunker Expense: 294,230.06 FO Cons: 562.57 DO Cons: 57.97

Profit/Loss Analysis

Item	Value
Hire / Day	17,000.00
Total Revenue	18,657,600.00
H/Add Comm	1 % OP. Expense: 1,572,958.55
Net Hire	16,830.00
OP. Profit	17,084,641.45
PROFIT / LOSS	16,571,556.11

Heavy Wx Calculation

Disclaimer :- For Reference Only. For detail Please refer to subscribed Wx advice and IMO MSC707

Parameter	Value	Unit	Description	Value	Unit
Vessel Lpp	210	m	Natural Period Of Pitch Motion Approx	14.48	Seconds
Vessel GM _t	200	m	Natural Period Of Role Motion Approx.:	5.11	Seconds
Vessel GM _L	190	m	Concerning Synchronous Roll use the Natural Roll Period ≈	32.74	Seconds
Vessel breadth	90	m	Concerning Parametric Roll Use Half Of Natural Roll Period ≈	16.37	Seconds

Additional Wave Calculation

Wave Length	Wave Period	Wave Length	Wave Velocity
λ = $\frac{gT^2}{2\pi}$	T=Wave Period = 34.32	1,837.48 m	53.54 kn

Critical Speed Limit Margin

$1.4 \cdot \sqrt{Lpp} - 1.8 \cdot \sqrt{Lpp}$

20.3 - 26.1