

**BRIDGE CHECKLIST 3 (Pilot/Master information exchange card) (Car Carrier)**

Ship's Name: BLUE RIDGE HIGHWAY  
 Year built: 2009  
 LOA (m): 179.99  
 Draft-Aft (m): 8.0  
 Displacement: 18290 MT  
 Anchor Chain: Starboard 11 shackles / Port 11 shackles  
 Allowable LHC (m): 32.20 m

IMO No: 9618161  
 Date: 21 JUL 2019  
 Port: PANAMA  
 Call Sign: HPHD-ABAB  
 Draft-Fore (m): 7.50  
 Air Draft (m): 47.2  
 Draft-Mean (m): 7.75  
 Bulbous Bow: Yes  
 Seaheek: 27.6 m  
 Bridge to Aft (m): 168.10

Parallel W/L: 32.20 m  
 Breadth: 21.65 m  
 Air draft: 47.2 m  
 Keel Mast: 48.00 m  
 Clockwise

Type of Engine: 1 Set KAWASAKI BAW 7000 MHC  
 Type of Fuel: Normal F.O. / Low Sulphur F.O. / Ultra Low Sulphur Fuel Oil  
 Maneuvering Engine order: RPLK / LSMGO  
 Full ahead (RPM): 66  
 Slow ahead (RPM): 49  
 Dead slow ahead (RPM): 42  
 Dead slow astern (RPM): 27  
 Slow astern (RPM): 27  
 Half astern (RPM): 42  
 Full astern (RPM): 49  
 Call astern (RPM): 50

Maximum power: 12500 kW (17,010 HP)  
 Speed: Loaded (Knots): 11.9  
 Speed: Ballast (Knots): 10.4  
 Time limit astern: 11.9 min  
 Max. no. of consec. starts: 16  
 Full ahead to full astern: 18 sec  
 Full astern to full ahead: 14 sec

STEERING PARTICULARS  
 Type of Rudder: 1 Master Type: 36°  
 Rudder angle for neutral effect: 28°  
 Rudder angle for neutral effect: 28°

Checked if aboard and ready (other information)  
 Radar: 3cm / 10cm  
 ARPA: 10m  
 Engine telegraphs: 12  
 Signature: Capt. H. Paganian

BRIDGE CHECKLIST 3 (PILOT/MASTER INFORMATION EXCHANGE CARD) (Car Carrier) (Form No. CK-001-03-01) 1/1

**PILOT CARD**

前 前 資料 日期: 2019-09-26  
 Ship's Name: YUEDIAN103  
 Flag: CHINA  
 IMO No.: 9651333  
 Displacement: 64654 MT  
 Call Sign: BOKE  
 Draft: 11586.5  
 DWT: 37347 MT  
 NRT: 20.80 m  
 Depth: 19.36 m  
 Draft F: 34.4 m  
 Air Draft: 13 shackles  
 Port Chain: 13 shackles  
 Type of rudder: 自动液压舵机  
 日期: 2019.09.26  
 船名: YUEDIAN103  
 船旗: CHINA  
 总吨: 64654 MT  
 净吨: 37347 MT  
 吃水: 11.5865 m  
 型深: 20.80 m  
 前吃水: 19.36 m  
 水面最大高度: 34.4 m  
 左舷链: 13 shackles  
 右舷链: 13 shackles  
 舵机: 自动液压舵机  
 日期: 2019.09.26  
 船名: YUEDIAN103  
 船旗: CHINA  
 总吨: 64654 MT  
 净吨: 37347 MT  
 吃水: 11.5865 m  
 型深: 20.80 m  
 前吃水: 19.36 m  
 水面最大高度: 34.4 m  
 左舷链: 13 shackles  
 右舷链: 13 shackles  
 舵机: 自动液压舵机

Diagram showing Bridge dimensions: 222.8m length, 43.0m breadth, 49m max height.

**BRIDGE CHECKLIST 3 (PILOT/MASTER INFORMATION EXCHANGE CARD) (Car Carrier)**

Vessel: "JANNES"  
 Master: Kallin Vladimir  
 C/O: Bodunov Yuri

Call: Port: Date: Alt

Anchor chain (shackles): Port 10, Starboard 10

Draft fwd.: 3.60 m  
 Draft aft.: 6.20 m

Length over all: 136.50 m  
 Wing/Stern: 126.2 m  
 Wing/Bow: 136.50 m

Parallel W/L: 136.50 m  
 Breadth: 126.2 m

Length of All: 136.50 m  
 Wing/Stern: 126.2 m  
 Wing/Bow: 136.50 m

Distances/Measurements: 21.00 m  
 Keel Mast: 40.09 m  
 Air draught: 33.89 m

ENGINE PARTICULARS  
 Type of engine: 5400 kW / 7241.5 HP  
 Manoeuvring engine order: RPLK / LSMGO  
 Full ahead (RPM): 66  
 Slow ahead (RPM): 49  
 Dead slow ahead (RPM): 42  
 Dead slow astern (RPM): 27  
 Minimum ahead (RPM): 27  
 Dead slow astern (RPM): 27  
 Slow astern (RPM): 42  
 Half astern (RPM): 49  
 Full astern (RPM): 50

Maximum power: 5400 kW (7241.5 HP)  
 Speed (knots): 11.9  
 Time limit astern: 11.9 min  
 Max. no. of consec. starts: 16  
 Full ahead to full astern: 18 sec  
 Full astern to full ahead: 14 sec

STEERING PARTICULARS  
 Type of Rudder: 1 Master Type: 36°  
 Rudder angle for neutral effect: 28°  
 Rudder angle for neutral effect: 28°

Signature: Broome

**CARD**

IMO NO: 9711925  
 Call Sign: HVYZ  
 Year built: 2014  
 NO: 10  
 (meters)

Flag: PANAMA  
 Deadweight (tonnes): 29,000  
 Breadth (meters): 14.42  
 Draft Aft (meters): 14.42  
 Draft Mld (meters): 14.42

Stbd Anchor: 12 shackles  
 (1 shackle = 27.4 meters / 15 fathoms)

ENGINE: Type of Engine: 8,880 kW 86.5 RPM  
 Maximum Power: 8,880 kW 86.5 RPM

Engine Order	Speed (RPM)	Harbour Speed (Kts)
Full Ahead	86	12
Half Ahead	55	8
Slow Ahead	40	6
Dead Slow Ahead	30	4.5
Slow Astern	40	6
Half Astern	55	8
Full Astern	86	12

MINIMUM RPM: 32 with 5.7 Knots  
 ENGINE CRITICAL RPM: 63 (EMERGENCY FULL ASTERN P)  
 TIME FULL AHEAD TO FULL ASTERN: 44-53 min

STEERING: Type of Rudder: 1 Master Type: 36°  
 Rudder angle for neutral effect: 28°  
 Rudder angle for neutral effect: 28°

PROPELLERS: 2 ELECTRO HYDRAULIC STEERING (Type) 15 degrees (Maximum angle)  
 THRUSTERS: 2 (number) 2 (number) 2 (number) Rudder Angle For Neutral Effect: NO  
 STEERING (HYDROSYNCRISIS): (number) Direction of Turn: Rudder Controllable Pitch: YES  
 STEERING (HYDROSYNCRISIS): (number) Direction of Turn: Rudder Controllable Pitch: YES

EQUIPMENT CHECKED AND READY FOR USE:  
 X-BAND RADAR: YES  
 S-BAND RADAR: YES  
 SPEED LOG: YES  
 ELECTRONIC POSITIONING: YES  
 COMPASS SYSTEM: YES  
 RUDDER RPM / ROT INDICATORS: YES  
 STEERING GEAR: YES  
 ECHO: YES

WHISTLE: 1  
 ECHO SOUNDER: 2  
 VHF: 2  
 SINGLE AXIS: 1  
 DUAL AXIS: 1

OTHER IMPORTANT DETAILS: None

MASTERS NAME: CAPT. BROOME  
 VOYAGE DATA RECORDER INSTALLED: YES  
 PILOTS NAME: ESTAN

# The Pilot Card

Is it time for an update?

Presenter: Capt. Peter Dann  
 Adapted from original presentation by  
 Craig Eastaugh

# The Pilot Card

*Is it time for an update?*

## WHY?

- Every ship has its own pilot card version – there is no standard version
- Pilot cards are not written for pilots
- Pilot cards don't provide timely information
- Modern pilotage requires much more detailed information
- We now have the ability to use technology to improve the information transfer

# The Pilot Card

*Is it time for an update?*

What should the format be?

- Suitable for paper and electronic devices
- App based?
- Universal file format – PDF?
- Selectable information tabs
- Click and drag items where suitable
- Easily upload information to (pilot card) page

# The Pilot Card

*Is it time for an update?*

Page to input ship type

Is your vessel a:

- Bulk carrier
- Geared bulk carrier

Where are the cranes located

What is the obscured arc

- Tanker

Bridge to manifold distance – inserts manifold schematic

- Containership

Bridge to bow distance - modifies the bridge position on the diagram

- Cruise ship

Bridge to bow distance – forward bridge

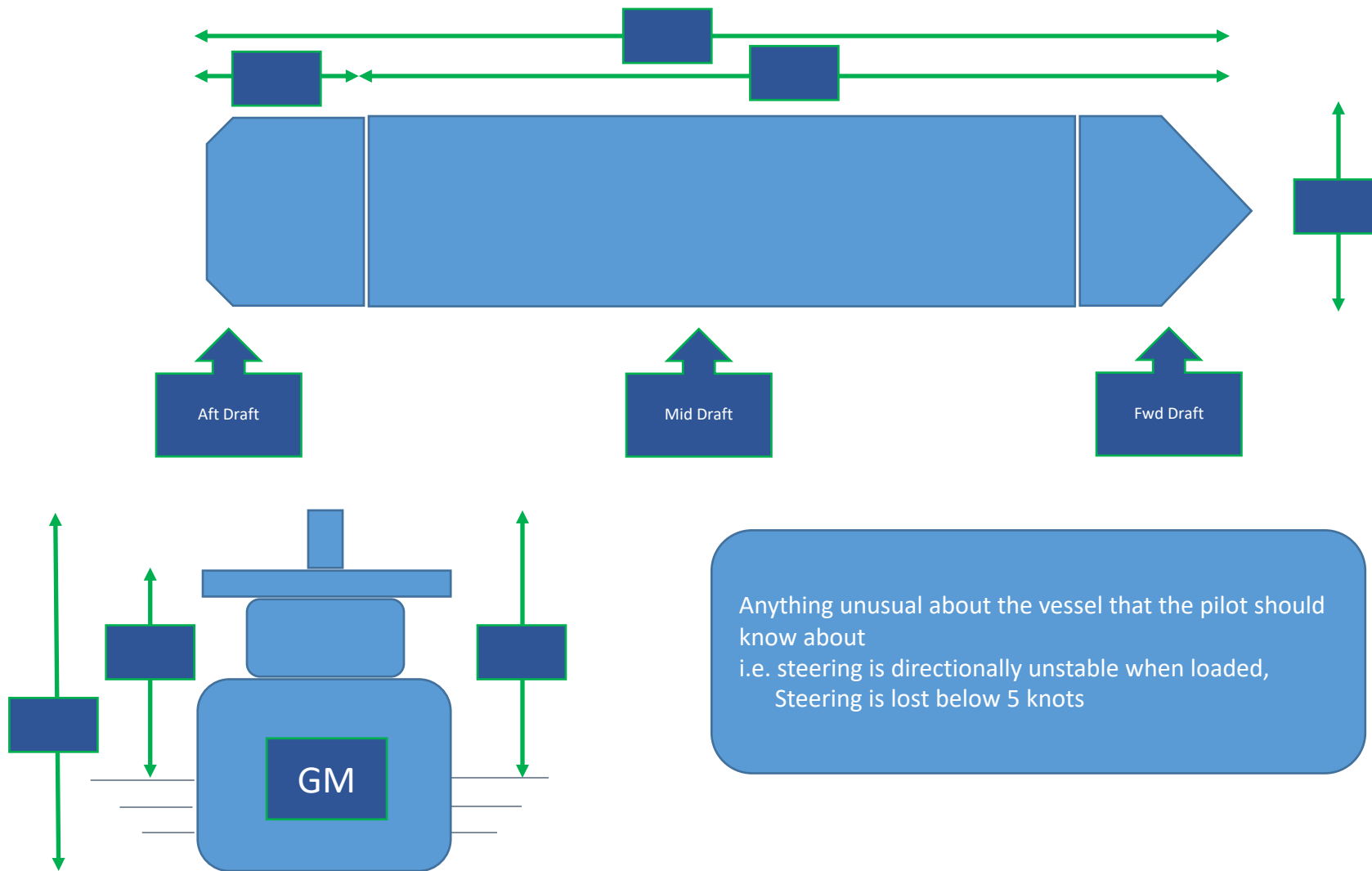
Modifies the machinery page for Azi-pods etc

# Dimensions

Port:

Date:

Name:  
 Call sign:  
 LN:  
 Year built:  
 Previous names:  
 Flag:  
 Displacement:  
 Deadweight:  
 GRT:  
 Parallel body length:  
     ballast:  
     loaded:

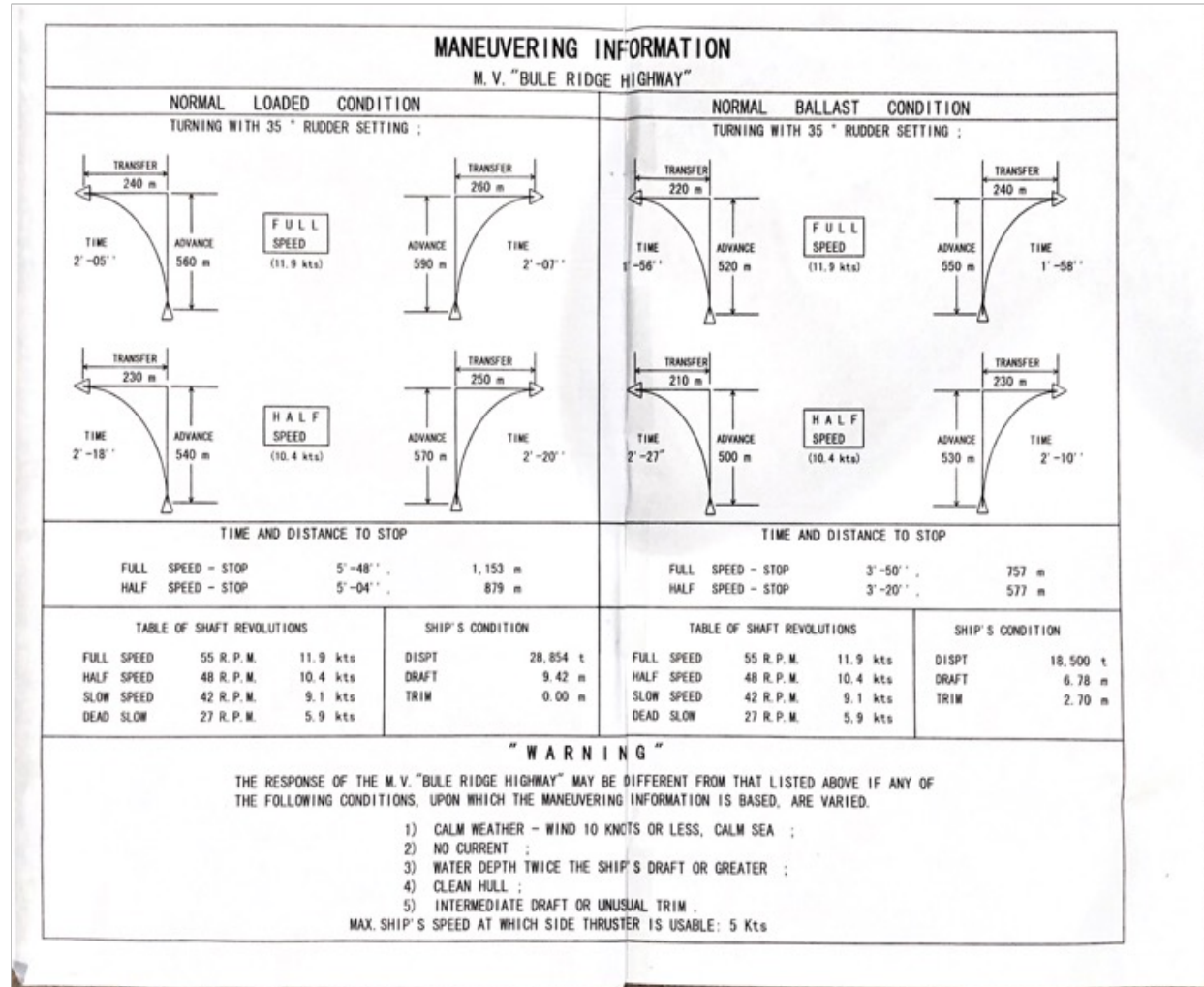


Anything unusual about the vessel that the pilot should know about  
 i.e. steering is directionally unstable when loaded,  
 Steering is lost below 5 knots

# The Pilot Card

*Is it time for an update?*

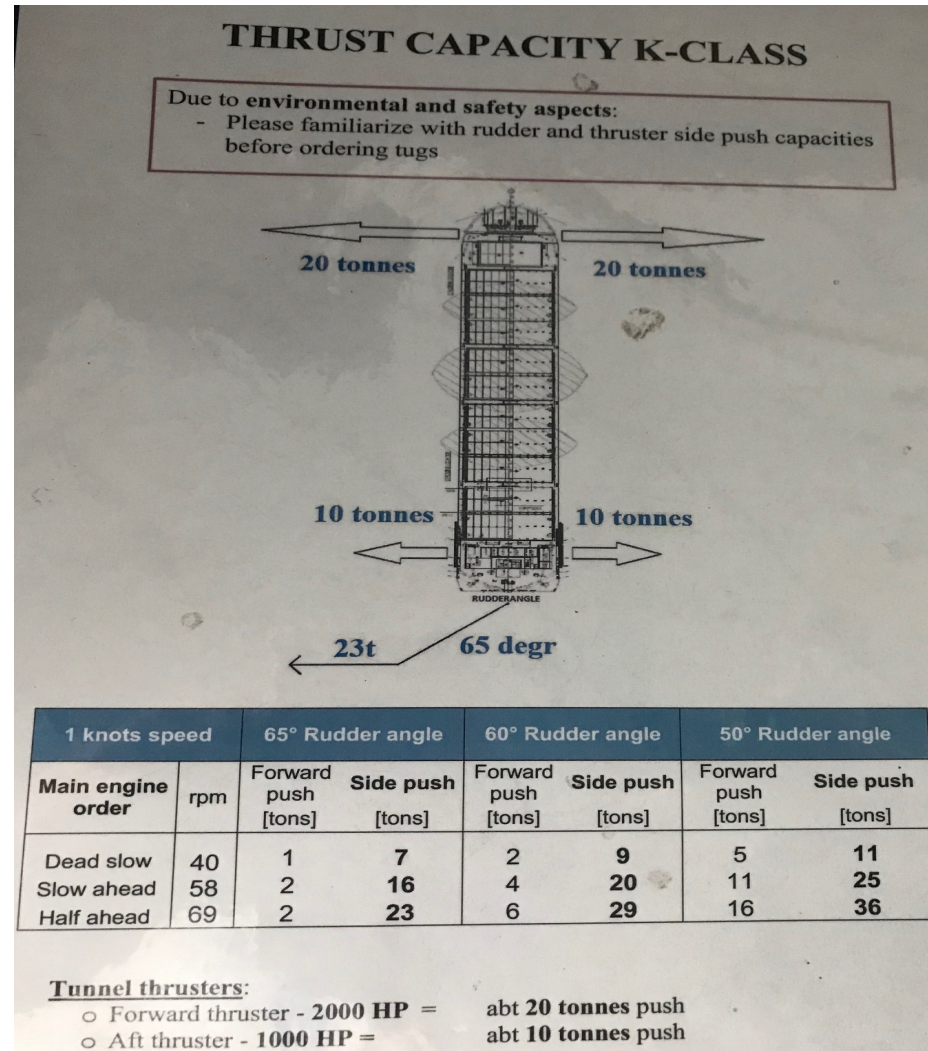
## Manoeuvring Information



# The Pilot Card

*Is it time for an update?*

## Manoeuvring Information



# The Pilot Card

## Is it time for an update?

### Ships Particulars

#### SHIP'S PARTICULARS

Ship's Name	M.V. BLUE RIDGE HIGHWAY		
Type	VEHICLES CARRIER		
Nationality (Flag/Colours) / Port of Registry	PANAMA / PANAMA		
Official Number	41123-10-B		
Call Sign / Signal Letter	3FEY4		
IMO Number	9510151		
MMSI	355558000		
Panama I.D. / Suez I.D.	6005519 / 036377		
Ship Builder	Nantong COSCO KHI Ship Engineering Co., Ltd.		
Hull No.	22N1603 (NE055)		
Keel Laid	15 December 2008		
Launched	25 August 2009		
Built / Delivery	18 December 2009		
Last Dry Dock	16 <sup>th</sup> -20 <sup>th</sup> Nov. 2017/Zhuohua, CN (ZESCO - Zhejiang Eastern Shipyard Co., Ltd.)		
Classification Society / No.	NIPPON KAIKI KYOKAI (NK) / 092424		
P & I Club	UK P & I CLUB		
Length Over-All (LOA) / L.P.P.	179.990 M (590.52 Ft.) / 167.000 M (547.90 Ft.)		
Breadth (Moulded)	32.200 M (105.64 Ft.)		
Draft (Summer)	9.400 M (30.832 Ft.)		
Dead Weight / Displacement (Summer)	15,290 MT / 28,854 MT		
International Tonnage : <b>Registered</b>	<b>Gross :</b>	<b>48,927</b>	<b>Net : 14,679</b>
Tonnage (Other) :	Japan	Gross : 29,962	
	Panama	Gross : 160,892	Net : 48,896
	Suez	Gross : 54,132.36	Net : 50,458.20
Depth (Moulded) :			
	Freeboard Deck	14.980 M (49.15 Ft.)	
	Boat Deck (Upper Deck)	32.210 M (105.68 Ft.)	
Height :	Keel to Top of Mast	45.700 M (149.896 Ft.)	
Main Engine :	KAWASAKI MAN B&W 7S60ME-C x1SET		
	M.C.O. (Max. Continuous Output)	17,010 PS (12,500 kW) x 99 rpm	
	C.S.O. (85% M.C.O.)	14,460 PS (10,630 kW) x 94 rpm	
	Service Speed (abt.)	20.0 KTS (Speed on the designed draft of 8.0M at normal output with 15% sea margin)	
	F.O. Consumption (abt.)	47.1 MT/DAY (44.6 MT/Day for ME; 2.5 MT/Day for G.E.)	
Bow (Side) Thruster	1,200 HP (920 kW) x 1200 rpm		
Owner/Operator :	<b>ETERNITY MARITIME SHIPPING S.A.</b>		
	Registered Owner I.D.	5452513	
	Address	53 <sup>rd</sup> Street, Urbanizacion Obarrío Torre Swiss Bank, 16 <sup>th</sup> Floor Panama, Republic of Panama	
Managing Company :	<b>FUKUNAGA KAIUN CO., LTD.</b>		
	Company I.D.	0208570	
	Address	5-8, Tokiwahigashi-machi, Saiki-shi, Oita-ken, 876-0851, Japan	
	Contact Details	Tel.: +81 972 22 5116; Fax : +81 972 22 5949 eMail : flinejpn@fline.co.jp	
Charterer :	<b>"K"LINE (KAWASAKI KISEN KAISHA, LTD.)</b>		
	Address	Ino Building 1-1 Uchisawaicho 2-Chome, Chiyoda-ku, Tokyo 100-8540, Japan	
TEL. / Inmarsat - <b>F77</b>	(Voice)	870 764949034 / 764949035 / 764949036	
FAX		870 783242569	
Inmarsat - <b>FB250</b>	(Voice)	870 773206809	
Inmarsat - C		435555810	
E-Mail		postmaster.3FEY4@globeemail.com	
Mobile		+81-90-1085-1632	
Master		Capt. HERMINIGILDO C. PAGTALUNAN	



# The Pilot Card

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## Machinery

Main Engine	Propeller	Rudder	Thruster
<p>Number: Type: Fuel: MCR: NCR: No of Starts: Load program in manoeuvring range? Y/N</p>	<p>Number: Type: CPP / Fixed Left / Right hand turning</p>	<p>Number: Type: Max angle: Time hard over to hard over:</p>	<p><u>Bow</u> Number: Power (kW): Control: Step/Variable</p> <p><u>Stern</u> Number: Power (kW): Control: Step/Variable</p>

# The Pilot Card

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## Manoeuvring Speed Table

<b>MANEUVERING SPEED TABLE</b>			
<b>SPEED</b>	<b>AHEAD</b>		<b>ASTERN ( R.P.M. )</b>
	<b>R.P.M.</b>	<b>SHIP SPEED ( KNOTS )</b>	
<b>FULL</b>	<b>55</b>	<b>11.9</b>	<b>55</b>
<b>HALF</b>	<b>48</b>	<b>10.4</b>	<b>48</b>
<b>SLOW</b>	<b>42</b>	<b>9.1</b>	<b>42</b>
<b>D. SLOW</b>	<b>27</b>	<b>5.8</b>	<b>27</b>
<b>BARRED SPEED RANGE : 30 ~ 38 RPM</b>			

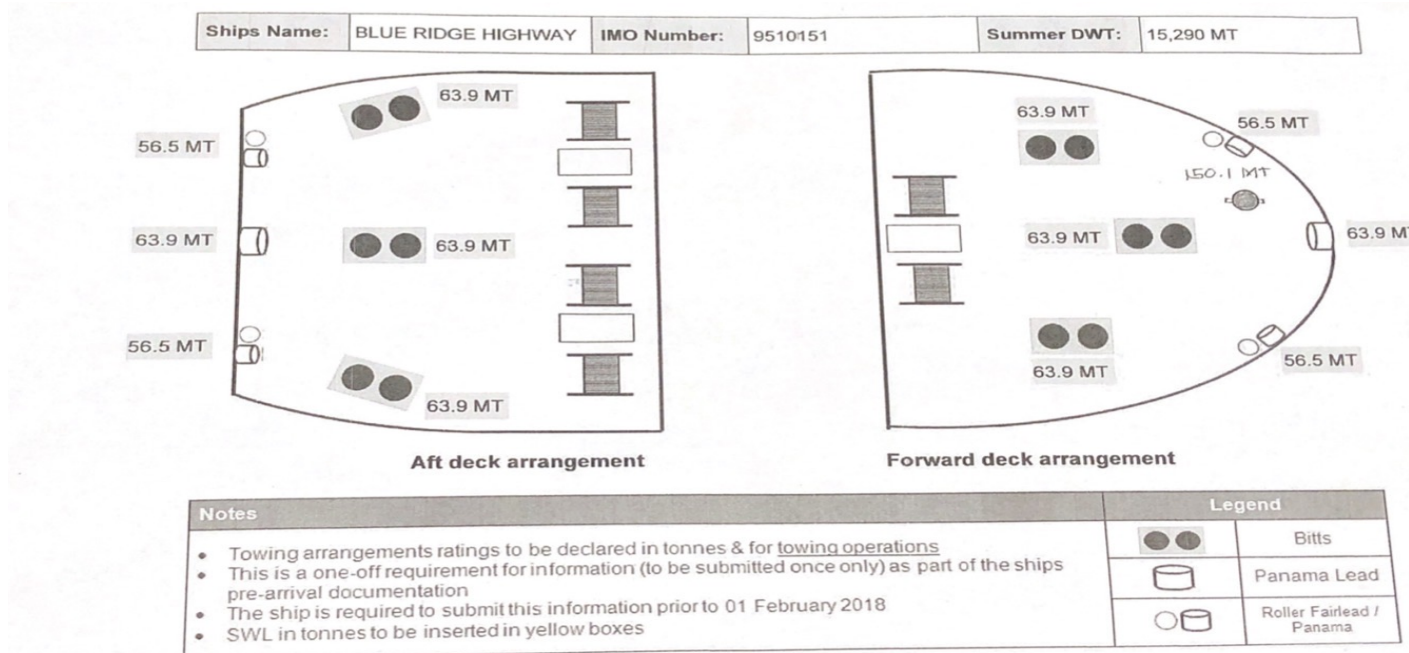
# The Pilot Card

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## Towage Fittings and Mooring Machinery

Have a ship shape with click and drag winches, bitts & fairleads.

Have SWL on each item

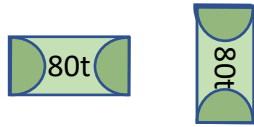


# The Pilot Card

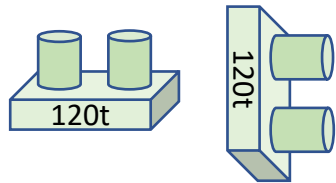
*Is it time for an update?*

## Towage Fittings and Mooring Machinery

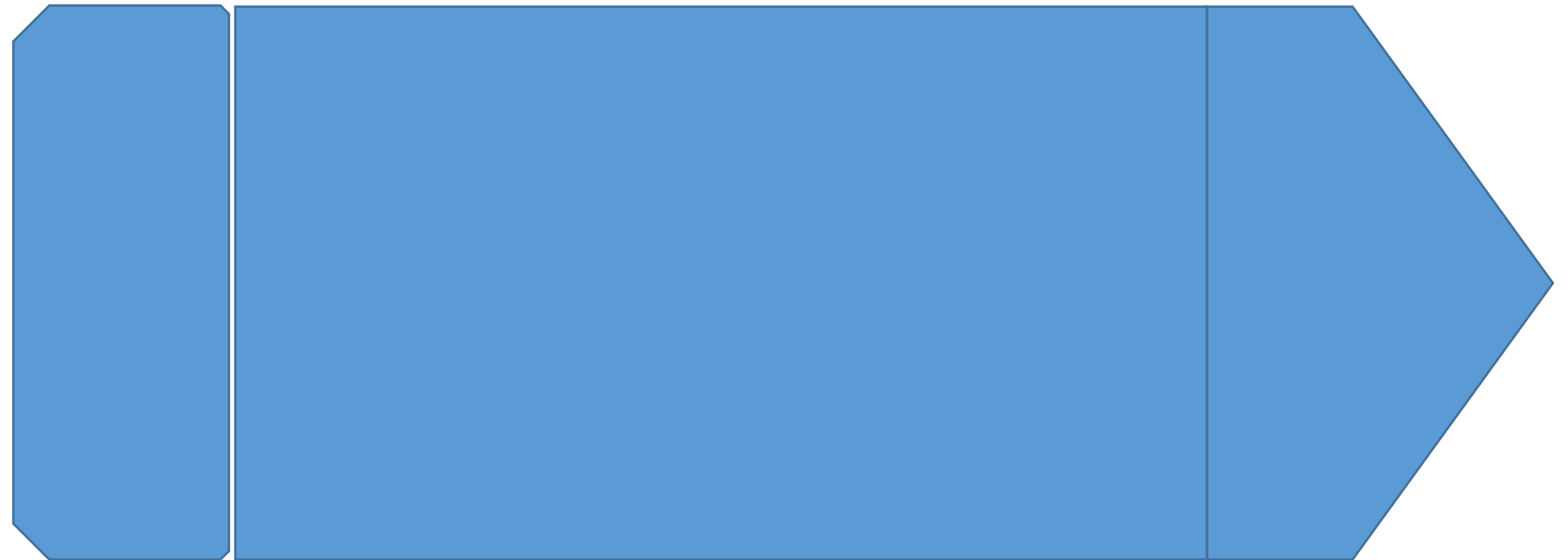
Panama Lead



Bits - Towing



Roller Lead

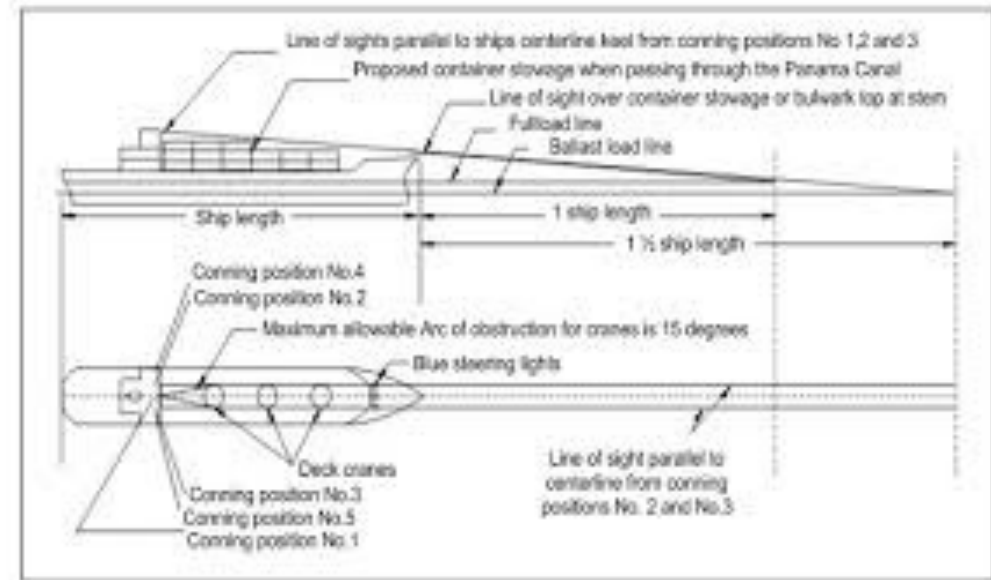
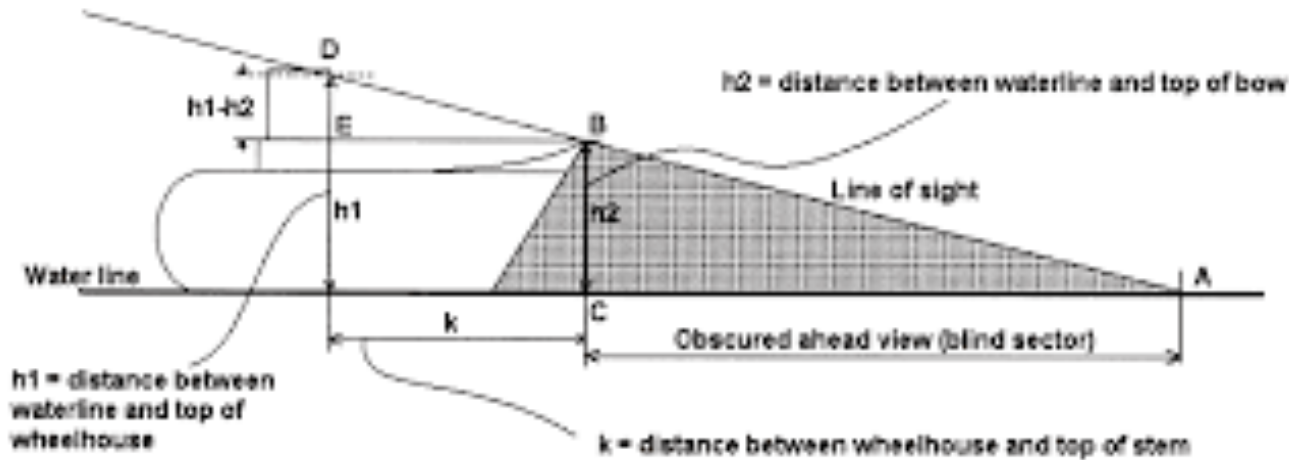


# The Pilot Card

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## Visibility Diagram

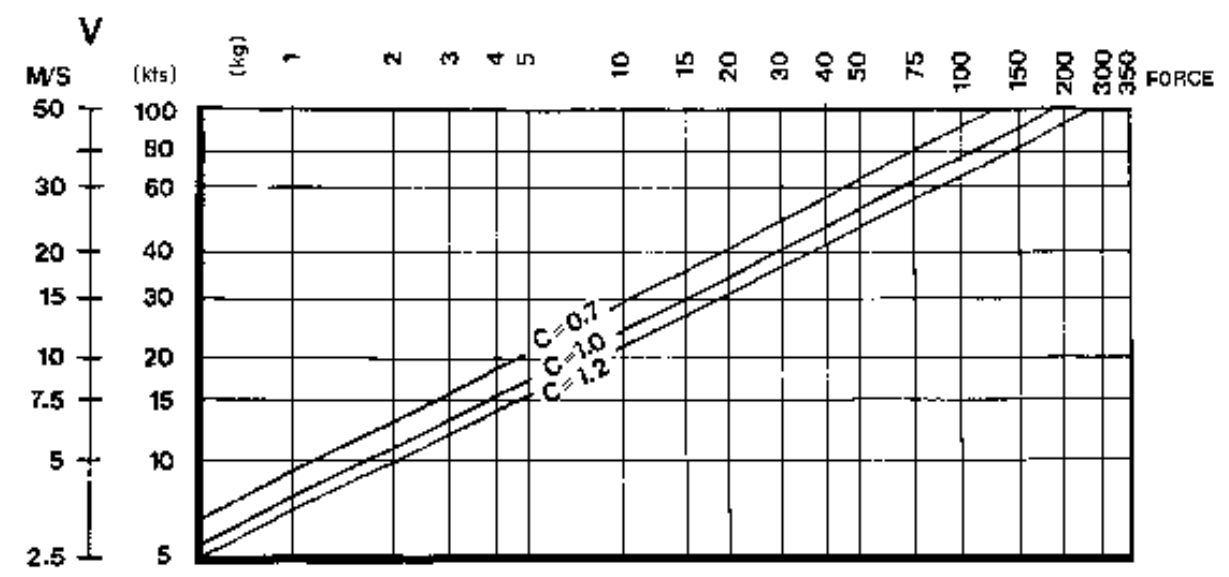
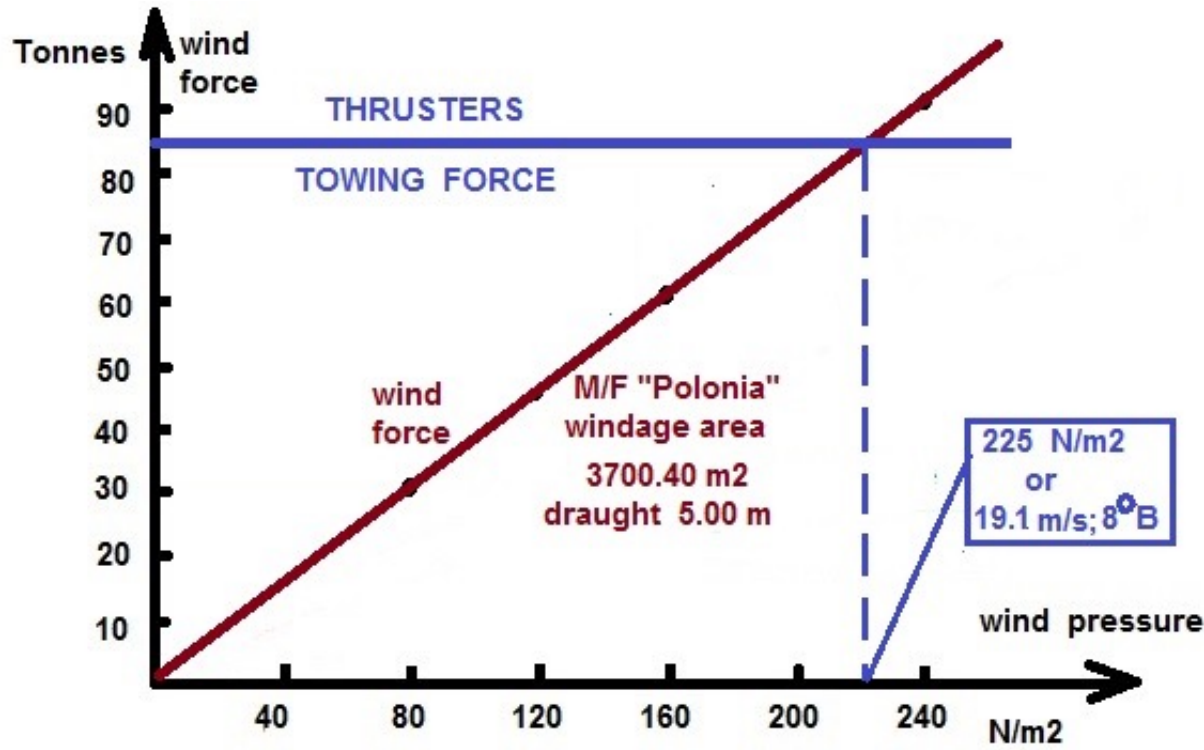
(both horizontal and vertical – include cranes)



# The Pilot Card

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## Windage Diagram / Calculations



# The Pilot Card

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## Portable Pilotage Unit Page

Does the conning position have room for a PPU?

Does the conning position have an AIS plug?

Does the conning position have a power plug?

What are the AIS offsets?

Is the AIS information up to date?

Are the bridge wings suitable for magnetic antennas?

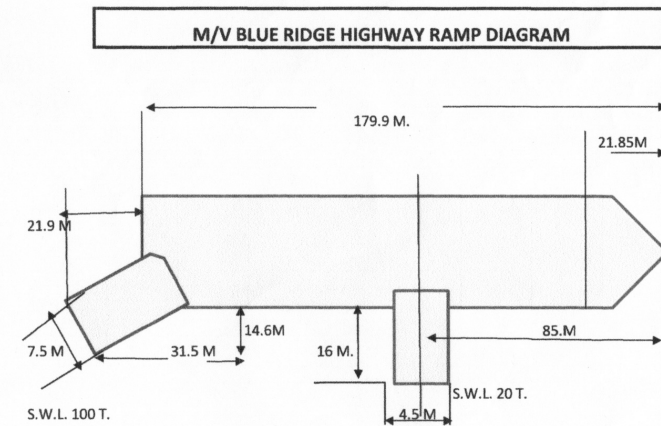
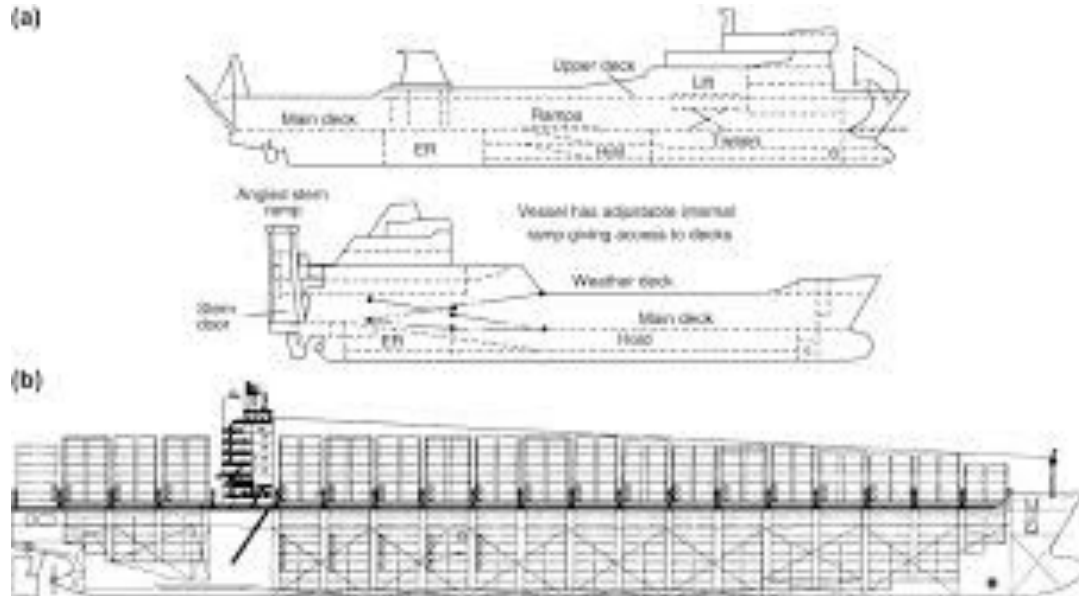
Does the bridge wing have a suitable place for a PPU (Laptop/iPad) to be placed during berthing?



# The Pilot Card

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## RO-RO Ramp Diagram / Pax Vessel Access door Diagram



**Height Clearance :**

STERN RAMP :	5.10 M (MAXIMUM)	CAR DECK NO.6 LIFT FULL UP
	3.50 M (MIDDLE)	CAR DECK NO.6 LIFT UP MIDDLE POSITION
	3.00 M (MINIMUM)	CAR DECK NO.6 NORMAL POSITION
		LOCATION RAMP OPENING ON CAR DECK NO.5
SIDE RAMP :	5.10 M (MAXIMUM)	CAR DECK NO.6 LIFT FULL UP (OPENING CAR DECK NO.5)
	3.50 M (MIDDLE)	CAR DECK NO.6 LIFT UP MIDDLE POSITION (OPENING CAR DECK NO.5)
	3.00 M (NORMAL)	CAR DECK NO.5 / CAR DECK NO.6 NORMAL POSITION (OPENING CAR DECK N
	2.20 M (NORMAL)	CAR DECK NO.4 / CAR DECK NO.5 NORMAL POSITION (OPENING CAR DECK N



# The Pilot Card

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## General Vessel Information

(not covered elsewhere)

- Unusual cargo on deck– overhanging, reduced visibility etc
- Unusual vessel handling characteristics
- Fuel issues – any change over problems
- Main engine is slow to fire (Time?)

# The Pilot Card

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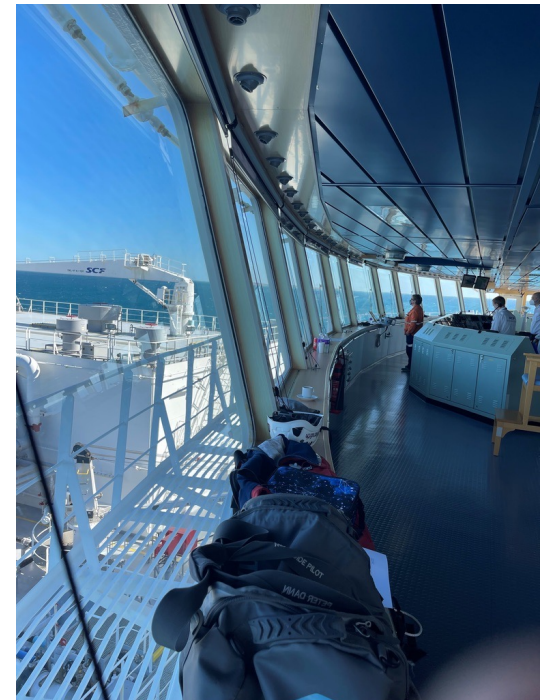
## Photos

- Vessel general
- From the conning position – forward
- Bridge wing layout
- Helicopter deck
- Unusual cargo on deck (overhangs etc)

# The Pilot Card

*Is it time for an update?*

View from the Conning Position



# The Pilot Card

*Is it time for an update?*

View of the Bridge Wing



# The Pilot Card

*Is it time for an update?*

Helicopter deck layout



# The Pilot Card

*Is it time for an update?*

## What Next?

- Is this the right way to go?
- Agree on final format
- Work out best platform for presentation and file transfer
- Trial run in a port with selected ships
- National (AMPI) agreement
- IMPA
- ICS
- ???