

## MV PAC DUBHE

### Description

Single screw, self-sustaining, multi-purpose container vessel, with double skin, box shaped cargo holds and a double tier of flush removable 'tween decks.

The vessel is non-cellular, but fully fitted for the carriage of palletized natural rubber, steel containers, grain or other cargoes in bulk and other unitized general cargoes in bags, bulk, breakbulk etc. The vessel is fitted for unrestricted service and for unmanned machinery spaces.

### Principal Particulars

Type : Multi-purpose, triple deck, container/bulk carrier  
Owner : T.S.Shipping Pte Ltd  
Disp. Owner : PACC Container Line Pte Ltd.  
Managers : Paccship Managers Pte Ltd.  
Builders : Kouan Shipyard, China  
Hull No. : WM 25000-5  
Built : 2006  
Class : American Bureau of Shipping  
Notation : +A1(E), Container & Bulk Carrier, SH, +AMS, +ACCU  
Official No. : 391502  
IMO No. : 9304021  
Call Sign : 9VJW4  
MMSI No. : 565 169 000  
Inmarsat-C : 456 516 910 a/b DUBE  
Inmarsat-F : voice – 764 626 391  
: fax – 764 626 392  
: Data:600 793 599  
: Speech:600 793 610  
: Audio: 600 793 611  
: MPDS:600 793 612  
Email:master.pacdubhe@telaurus.net  
Deadweight : see table below  
TEU : 1,364 TEU (On deck: 760 + In hold: 604)  
FEU : 649 (On deck: 355 + In hold: 294)

### Principal Dimensions

LOA : 178.80m  
LBP : 169.4m  
Beam Moulded : 27.20m  
Depth Moulded : 14.20m  
Draft Design : 10.20m  
Max.dft(mld) : 10.427m  
GRT : 20471  
NRT : 10630

Mark	Deadweight	Draft	Displacement	Freeboard
Summer	27408	10.427m	38,046 mt	3.803m
Tropical	28,320	10.644m	38,958 mt	3.586m
Winter	26,500	10.210m	37,138 mt	4.020m
Tropical (FW)	28,320	10.872m	38,958 mt	3.358m
Summer (FW)	27,408	10.655m	38,046 mt	3.575m
Lightship:	10,637.917	mt	FWA: 228 mm	TPC at summer draft : 41.95

Airdraft on summer marks (Even keel) : 36.37 metres

## **Machinery**

Main Engine : Mitsubishi 6UEC50LSII  
Engine Power : MCR 8,250kW @ 124 rpm / 11,217 hp  
Generators : 3 Daihatsu x 700kw  
Bow Thruster : 1,040 kW / 1,340 hp thrust, electrically driven

## **Cargo cranes**

No. 1 : 1 x 40mt SWL @ 26m  
No. 2A : 1 x 45 mt SWL @ 22m, 37 mt @ 28m, 30 mt @ 31m  
No. 2B : 1 x 45 mt SWL @ 22m, 37 mt @ 28m, 30 mt @ 31m  
Cranes 2A & 2B can be Geminied to lift 70mt/85mt @ 28m/22m resp. using a Twin Beam.  
No. 3 : 1 x 40mt SWL @ 26m  
Using a Team Beam which is warehoused at selective ports, loads of upto 120 mt can be lifted using 3 cranes.

Type : Electro-Hydraulic

## **Speed & Consumption**

15.10 knots on about 30.5 mt IFO 380cSt / day (M/E only) basis design draft, 85% MCR and 15% sea Margin

A/E Consumption:

At sea : About 2.8 mt IFO 380cSt / day (on 1 generator only)  
In port : About 3.5 / 2.0 mt IFO 380cSt / day with / without ship's cranes operating

Minor quantities of MDO are consumed when starting / stopping the diesel generators and when manoeuvring in confined waters / canals / rivers and during mooring operations (about 0.30 mt)

Min. bunker quality specification:

IFO 380 : ISO 8217(E) - RMG 35  
MDO : ISO 8127(E) - DMC

Endurance : About 46 days

Range : About 16,560 nm

## Cargo Holds

Grain Capacity : 37,868 cbm (excluding no.1 cargo hold)

Holds/Hatches : 5 Holds / 9 Hatches

Ventilation : Mechanical

Ventilation rate : 15 air changes/hour

Features : Tween deck pontoon covers removable and inter-changeable for Nos. 2 to 5.

: The covers are stowed on deck and in No. 1 cargo hold, converting Nos. 2 to 5 cargo holds into single boxed shaped holds.

: Certified for carriage of grain and bulk cargoes with untrimmed ends and in alternate holds.

: Certified for carriage of certain IMDG dangerous goods

## Hatch Covers

Upper Deck : Hydraulically operated folding pairs (MacGregor)

Tween Decks : Pontoon lift-away type which may be operated with ship's cranes. All pontoon covers, except for Hold No. 1, are interchangeable.

## Hold Dimensions (L X B x D (m))

No.1	UTD	: 11.1 x 9.75 x 5.5
	LTD	: 11.1 x 9.75 x 4.6
	LH	: 11.1 x 9.75 x 4.6
No.2	UTD	: 29.9 x 18.2/23.6 x 4.6
	LTD	: 29.9 x 18.2/23.6 x 6.6
	LH	: 29.9 x 18.2/23.6/13.2 x 4.7
No.3	UTD	: 32.1 x 23.6 x 4.8
	LTD	: 32.1 x 23.6 x 3.6
	LH	: 32.1 x 23.6 x 4.7
No.4	UTD	: 31.2 x 23.6 x 4.8
	LTD	: 31.2 x 23.6 x 3.6
	LH	: 31.2 x 23.6 x 4.7
No.5	UTD	: 28.0 x 23.6 x 4.80
	LTD	: 28.0 x 23.6 x 3.60
	LH	: 15.1 x 13.2 / 23.4 x 4.7 (fwd: frame 58)
	LH	: 21.4 x 8.6 / 18.3 x 4.7 (aft: frame 49)

### **Hatch Openings (L X B (mtrs))**

No.1 : 7.70 x 11.00  
No.2 (for'd) : 12.87 x 8.46  
No.2 (aft) : 12.87 x 10.9  
Nos. 3 - 5 : 25.64 x 10.9 (P & S)

### **Container intake (Deck + Hold = Total (TEU))**

No.1 : 10 + 0 = 10  
No.2 : 106 + 156 = 262  
No.3 : 208 + 160 = 368  
No.4 : 208 + 160 = 368  
No.5 : 224 + 128 = 352  
Bay 37 : 4 = 4  
Total : 756 + 604 = 1,364

50 reefer containers can be stowed; the vessel's working voltage is 440v.

### **Stack Weights**

#### Containers (TEU / FEU(mt))

##### On Deck:

No.1 : 30 / 0  
No.2 : 40 / 50  
Nos.3 to 5 : 60 / 80

##### In Holds:

5 tiers : 100 / 150  
6 tiers : 120 / 180

#### Uniform loading (mt/psm)

Hatch Covers : 1.75  
Tweendeck : 3.5 (4 T only for second tier of No. 2)  
Lower hold : 20.0

**Description provided good faith and without guarantee**