

HATCH COVERS INSPECTION REPORT OF DRY BULK VESSELS



Vessel's Name	: M/V TBN
IMO No	: 100001
Place of Inspection	: Freeport, Bahamas
Date of Inspection	:25, Mar. – 28, Apr. 2009
Inspector's Name	:Bournias Th.

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Section 1: Vessel's Particulars

1.1	General Information Year of Built : 2000 Place of Built : CHINA Name of ship operator/manager : Address of ship's operator/manager : 126-128 Notara Str. Piraeus Greece		
1.2	Principal Dimensions (m) LOA :133.180 LBP :121.840 Breadth (mld) :20.800 Depth (Mld) :10.400 Summer Draft : 7.800		
1.3	International Tonnage GT :7970 NT :3513	Suez Canal Tonnage GRT: NRT:	Panama Canal Tonnage GRT: NRT:
1.4	Registration Flag: St. Vincent & Grenadines Classification: L.R. P&I Club: -		
1.5	Ship Type Bulk Carrier <input type="checkbox"/> General Cargo <input checked="" type="checkbox"/> Covers Type Side Rolling <input type="checkbox"/> Folding <input checked="" type="checkbox"/> Single pull <input type="checkbox"/> Pontoons <input type="checkbox"/> Cargo holds Used for ballast : Suitable for carriage of heavy cargoes : NO		

Section 2: General Inspection report

2.1	<p>Vessel inspected after instructions received from:</p> <p>Name: Mr. Andridis Date: 22 February</p>
2.2	<p>Purpose of inspection</p> <p>Repairs and tightness of hatch Covers</p>
2.3	<p>Inspection was carried out</p> <p>By: Bournias Th. At: Freeport Bahamas</p> <p>Dates / Time</p> <p>25/03/2010 - 28/04/2010</p>
2.4	<p>Owners / Company's representative:</p> <p>Mr. Bournias</p>
2.5	<p>Vessel's condition during inspection:</p> <p>Laden <input type="checkbox"/></p> <p>Ballast <input type="checkbox"/></p> <p>Loading operations <input type="checkbox"/></p> <p>Unloading operations <input type="checkbox"/></p> <p>Lay By Berth <input checked="" type="checkbox"/></p>
2.6	<p>Crew members assisting during inspection</p> <p>Captain <input type="checkbox"/></p> <p>Chief officer <input checked="" type="checkbox"/> Hose test including</p> <p>Chief Engineer <input type="checkbox"/></p> <p>2nd Engineer <input type="checkbox"/></p> <p>Other <input checked="" type="checkbox"/> Hose test including</p>



Section 3: Hatch Covers / Coamings Inspection Form

Location : Main Deck **Twin Deck** **Fore End**

HATCH No 1 - 4

Panel No (ALL)

Consider below described a general condition

AREA	Good	Fair	Poor	notes
Covers Shell Plate	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Covers top plate found with several wasted areas. Same should be considered for replacement at next dry dock.
Covers Stiffening System	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Found at good condition.
Drain Channels	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Found at poor condition. Repaired at max length straitened and faired, adjusted in correct position.
Rubber Channels	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Found at poor condition. Repaired at max length straitened and faired, adjusted in correct position. Found in incorrect position as built.
Rubber Packing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Found at poor condition. Same replaced at total length and adjusted.
Compression Bar	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Is a flat compression type. Found uneven at center parts between stiffeners. New flat plates placed by various thicknesses in order to adjust compression correctly at full length. See drawing 1
Air Vents	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N.A.
Securing Cleats	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Found in poor condition. Reconditioned and rubbers replaced, adjusted in place.
Snuck	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Found in poor condition due to extreme edges wastage. In this respect all have been re-welded in order to assure cleats securing.



Track Ways	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Flat compression has been readjusted as above described. Note that several pitting areas as long as mechanical damages were observed which should be taken under consideration for repairs at next docking.(Fwd and aft tracking plates).
Resting pads (bearing pads)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Found in poor condition. Due to their poor condition rubber packing were seriously damaged and over compressed. Same repaired and adjusted at correct compression limit.
Rollers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Found in good condition.
Coaming Plating	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Localized pitting were observed.
Coaming Stays Vertical	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Several flanges were repaired. Rest were in good structural condition.
Coaming Stays Horizontal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Several flanges were repaired. Rest were in good structural condition.
Dog Bolts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N.A.

PHOTO REPORT



Cross joint as found



**Compression flat and drain channel
In poor condition as found**



Broken rubber packing as Found



**Internal view of packing in
Poor condition as found.**



**Cross joint rubber channel as found
Is totally wasted.**



**General view of channel as found
Totally wasted.**



**Flat compression of cross joint
With totally wasted drain channel.**



**Wasted and frozen over-compressed
Rubber packing**



Top plating view with pitting areas.

**Should be taken under consideration
For next docking repairs**



**Flat compression area uneven
And wasted**



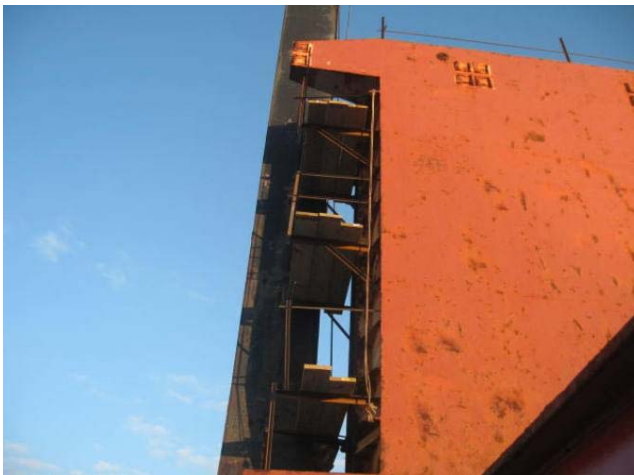
**Bracket of cover side totally wasted.
Several brackets of sides replaced.**



**Side rubber channel area.
Typical wastage as found.**



**Tower staging at Covers with
Safety railing on top of covers**



**Another view of tower staging.
Consider same for all hatch covers**



**Reconditioned cleat.
See fabricated crutch same
Fabrication for 12 pcs installed
And adjusted in correct position.**



**Reconditioned cleat with
Fabricated onboard crutch**



**Cross joint as found with big gap
Between packing and flat
Compression.**



**Flat compression as placed and
Adjusted.**



**Print mark of rubber packing on
The edge of flat compression.**

**Looks that actual compression
Is just on the limit.**



**Flat compression with deep pits.
Same is causing miss compression**



**After inspection it is obvious that flat
Cross joint compression is
Misaligned and about 20mm
Of deflection.**



Flat compression
At another cover with deep pitting
And uneven. In this respect consider
Same as a general defect.



**Replaced flat compression on cross
Joint and re aligned**



**Another part of cross joint covers
With replacement as above**



Rubber channel at aft part removed



**Rubber channel fitted and adjusted
At ends.**



Rubber channel fitted and adjusted.



**Rubber channel replaced at
Cross joint.
Similar is repair at all covers.**



**Replaced side rubber channel
And installation of packing.**

Similar for all hatch covers



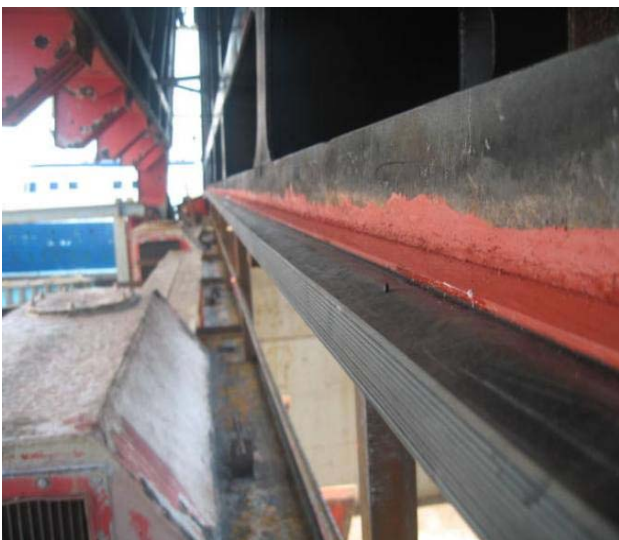
Installation of corner packing.



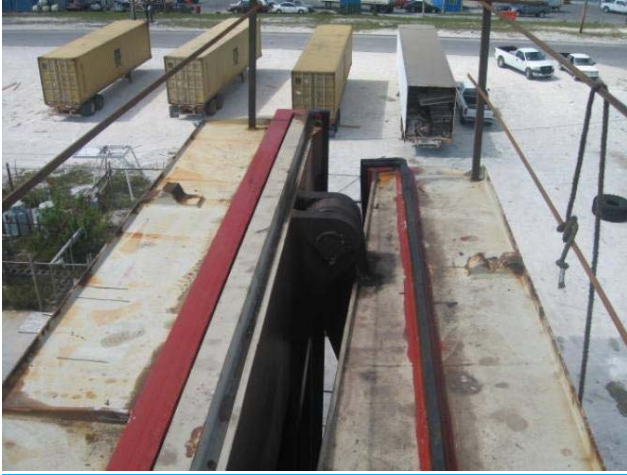
Rubber packing replacement at side



Corner packing replacement



End packing replacement.



**Cross packing with flat compression
New installation.**



**End corner piece mistaken spare
Part.**



**Modification of end corner area in
Order spare part to be fitted**

**Same applies to all corner pcs
Of all panels.**



Final fitting of end corner pc



**Another view of fitting with
Modification on channel too.**



Final arrangement.



Closing of covers for adjustment.



**Closing position of covers shows
Approx. 30mm of over compression
Since aft bearing pad is not touching
Bearing plate on coaming.
So that it is obvious that further
Adjustment is requirement.**



**Means of compression checking
Since side bearing pads are internal
And cannot be seen but from hold
Side.**



**Bearing pad (resting pad) of cover
Internally as above described.**



**Guide with bearing pad internal
Of covers.**



**Wasted part of internal area
Guide and resting wastage.**



At resting point of cover it is obvious that there is no steel to steel contact with resting pad and enhanced hatch rim. (side area) This is caused from wastage as described above, further is causing also over compression of packing and eventually packing distortion.



Additional adjusting internal pads install at all panels in order to avoid over compression and packing distortion.



Another cover with additional padding blocks for same reasons of adjusting resting position.



**Closed position of covers.
Adjusted resting pad with
Packing correct compression.**



**Packing compression at closed
Position after repairs and
adjustment.**



Cross joint view in closed position.



At cover No 4 panel 1 observed Problems at operation during Open/closing. Same repaired



Additional pc adjusting resting Position of cover in order To avoid distortion of packing During operation of covers.



Pressure testing of fire hose Prior commencing hose test.

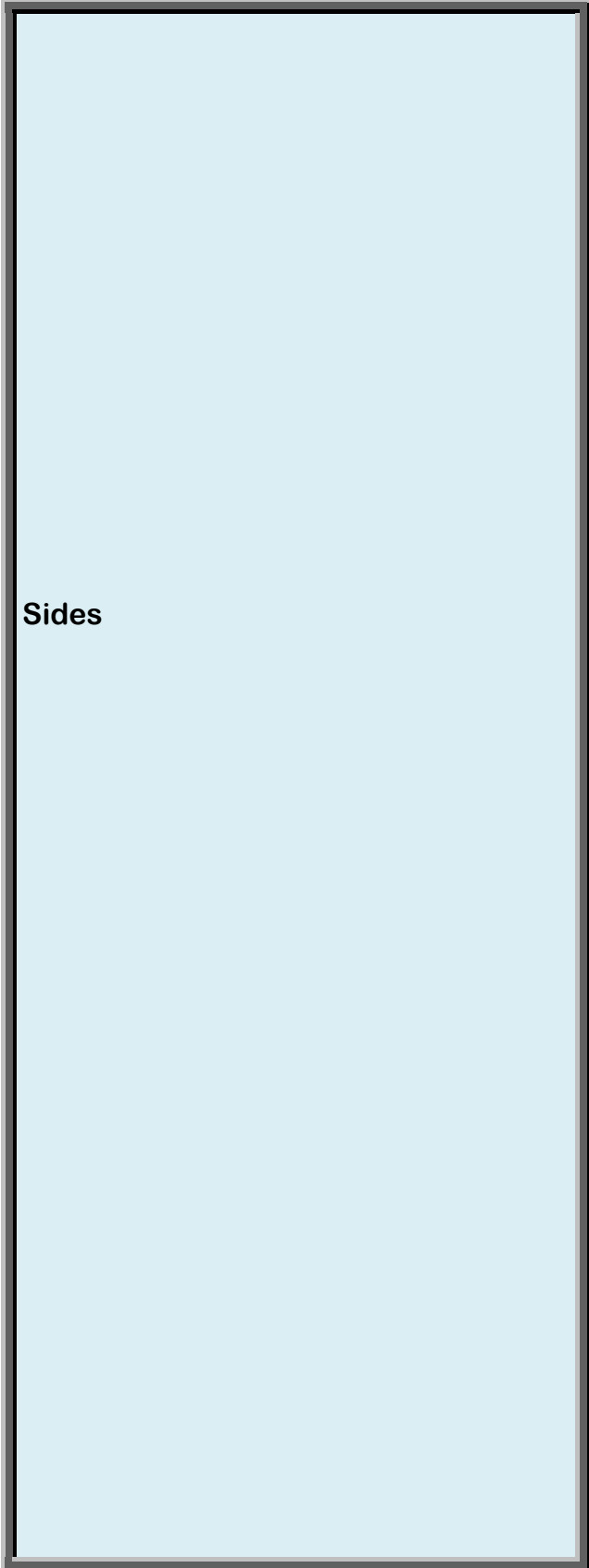


Hose test of covers



Cross joint areas.





Sides



Destroyed platforms of crane no2.



Crane No1 with destroyed platforms



New platform



Rest of platforms.



Staging on cranes in order to Reach highest part to install Platform.



New stay bars at sideways and Container fittings of same position



Container fittings with same Adjusting for correct fitting.

Lashing eyes have been de-frozen In order to achieve their Functioning. Same at all covers. Several container fittings (approx 30 Pcs) have been reformed fro single To double fitting.



Top area of pillar.



**Above repaired and container fittings
Adjusting and installed**



Covers fittings adjustment.



**New steps installed at port
External accommodation ladder**



**Safety pin fabricated and installed at
Provision cranes port/stbd.**



**New brackets installed at
Accommodation deck.**

ANNEX

1. Steel Work Analysis

2. Repair Drawings

Notes:

- Covers delivered to owners fully water tight and operational.
- Hatch covers top plates as described, were noticed with extensive pitting at several locations. Should be considered as a suspect area for forthcoming survey.