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Lloyd's Register of Shipping.

No. 2970

Port

WELLINGTON

19th October, 1940

This is to Certify that

I, GEORGE DAVID LIDDETT,

the undersigned Surveyor to this Society did at the request of the MASTER and AGENTS, MICHIE, NEW ZEALAND SHIPPING CO. LTD., WELLINGTON, hold a DAMAGE SURVEY on the S. V. "ARMADALE" of LONDON, G.R. 5066 TONS (H. E. WHINN, Master) & No. 69996 IN REGISTER BOOK OF SOCIETY, on the 1st August 1940 and subsequent dates, in order to examine and report on damage stated to have been caused by collision with the Motor Tanker "Ole Jacob" off Cape Campbell, Cook Strait, during the evening of 31st July 1940. See copy of Ship's Log attached hereto.

CIRCUMSTANCES: The "Armadale" was on voyage from Dunedin to Sydney, N.S.W. and "Ole Jacob" had received orders to proceed to Lyttelton to commence discharge. Both vessels proceeding on their course, "Armadale" black out, "Ole Jacob" navigation lights dimmed, when the collision occurred off Cape Campbell. "Armadale" heavily holed Starboard side No. 1 Hold, "Ole Jacob" forecastle wrecked and bows crumpled back to nearly collision bulkhead.

1ST EXAMINATION: Vessel afloat at Actae Wharf. Examination started 1st August 1940. The impact has taken place at the fore end of No. 1 Hold tearing the ship's side plating and folding the whole mass including the Main or Lower -ween deck back on to the after end of the hatch coamings; damage extending from after bulkhead No. 4 Hold to the Collision Bulkhead frame. Frames 125 to 153 decreasing in area in the lower strakes. Lower deck completely torn away in way of hatch coaming, frames 130 to 152. Hatch coaming and star. girder wrecked. Fore and aft of this plates and beams buckled. Hatch corner pillars of lower Hold and tween deck starboard side torn away and buckled.
Inner deck. All deck beams torn away by forecastle deck of "Ole Jacob" and deck buckled frames 128 to 146, starboard girder and coaming torn away. Hatch beams buckled and two lost; all wooden hatch covers of No. 1 Hold hatches lost.

It was then recommended and advised that cargo, as stored in No. 2 Hold be discharged, also that about 60 tons of fuel oil left in No. 2 D.B. Tank be discharged to enable this tank to be cleaned out for examination and tests. Arrangements were made to drydock the vessel to complete the examination of the damage; the vessel was docked on Saturday, 3rd August, 1940.

Certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that:—
The Committees of the Society use their best endeavours to ensure that the functions of the Society are properly carried out. It is to be understood that neither the Society nor any Member of any of its Committees is under any circumstances to be held responsible for any inaccuracy in any report or certificate issued by the Society or its Surveyors, or in any Register Book or other publication of the Society, or for any error of judgment, default or negligence of any of its Officers or any Member thereof, or the Surveyors, or other Officers or Agents of the Society."

EXPLANATION: Examination of the damage in drydock. The extended down and under to A Stroke cutting well into the B. Tank frames 132 to 145, tearing away wing brackets and also tank margin in this area. Floors and half intercostals d, tank top plate torn away from two strokes. Hold and Tween Deck fittings Starboard side with all and straps destroyed. All wooden hatch covers lost over-

repairs were shown over and made their examination with a submitting a price, only one firm being interested (Messrs. H. & Co. Ltd., Wellington), and they submitted a price £20 (Twenty Five Thousand Pounds) New Zealand Currency and time weeks. In view of the emergency conditions prevailing, i.e., age of material and labour, no competitive tenders could be had. It was recommended that this price and time be accepted, no account when the vessel docked for repairs. Specification, terms of contract or penalty clauses were not acceptable to the firm and the only guarantee that the work would be completed on and for the amount stated, was the firm's good name and reputation. Overtime to be worked to the limit of the men's type.

The Dock was secured and the vessel placed in on the August 1940 when repairs were got under way. Conferences on Repairs and their representatives and myself were held to decide method of repair and to conserve material, at the same time getting the vessel back in her original good condition.

REPAIRS AND REPAIRS: The following are recommendations and to be carried out:-

HOLD SIDE No.1 HOLD.

No. (In) next to Flat Plate Keel.

Plating fairing in place between frames 133 and 139 near stern stroke shell plating.

No. (Out).

Plating removed between frames 130 and 143, laps arranged as originally.

No. (In).

Plating renewed between frames 133 and 146 and a new shift of arranged. Shell plating between frames 132 and 133 - 4 fairing done.

No. (Out).

Plating removed between frames 131 and 151, original laps.

No. (In).

Plating renewed between frames 129 and 147. Shell plate on frames 146 and 153 removed fairing and replaced.

No. (Out).

Plating removed between frames 132 and 150. Shell plating on frames 130 and 132 - 3 and between frames 149 - 50 and fairing in place.

No. (In).

Plating renewed between frames 130 and 152 and a new shift to be arranged.

No. (Out).

Plating removed between frames 128 and 153 and a new shift to be arranged.

No. (In).

Plating renewed between frames 127 and 154 and a new shift to be arranged.



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"ARMADALE"

L. Stroke (out)
Shell -

-3-

No. 2978

plate between frames 125 and 130 removed faired and replaced.
Shell plating removed between frames 129 - 30 and 155, and a new
sheet of butts arranged.

L. Stroke (in).

Shell plating removed between frames 134 and 152.

L. Stroke (out).

Shell plating faired between frames 130 and 137 near seam of L
stroke. Damaged shell plating cut away in vicinity of frame 143
and a new piece of plate 18" x 1/2" x 2'3" butt welded therein.

Generally.

Adjacent plating faired in place as found necessary. Loose rivets
in way of damage removed generally.

Thicknesses of new Plating:- Strakes D, G, D₂ & H 5/8";
Strake P 9/16"; end strakes C, H, J, K, L, M 1/2".

HULL INTERIOR.

No. 1 Double bottom tank. Starboard side.

Floors on Frames 131 and 132. Faired in place near margin line
on shell.

Margin connection angle on frame 133 removed, faired and replaced.

Floor on Frame 133. Plate cropped and removed, and shell and tank
top angles cropped and removed from margin line on shell to approxi-
mately 6'0" inboard. Margin plate connection angle removed.

Floor on Frame 134. Floor plate and frame angle removed from
centre girder to margin line. Tank top angle removed for a
distance of 6'0" on outboard end. Margin plate connection angle removed.

Floor on Frame 137. Floor plate cropped and removed and shell and tank
top angles cropped and removed approximately 4'0" from margin
line on shell. Margin plate connection angle removed.

Floor on Frame 138. Floor on Frame 138 and shell angle cropped
and removed from margin line on shell to approximately 2'6"
inboard. Margin connection angle removed.

Floors on Frames 139, 140, 141, 142, and 143. Faired in place
near margin line on shell. Tank top margin connection angles and
shell angles in vicinity of damage cropped, and removed, faired
and replaced.

INTERCOASTAL.

Half height intercostal girder complete with connection angles
removed between frames 137 and 139.

Half height intercostal girder removed, faired, and replaced
between frames 132 and 137 and between frames 139 and 142.

STRIKE TIP. STARBOARD SIDE.

Strake of plating next to centre strake cropped and removed
between frames 136 - 7 and 140 - 1.

Stealer plate near margin located between frames 133-4 and 140 - 1
removed.

Margin plate cropped and removed between frames 134 - 5 and 141 - 2
and new butts arranged.

Margin angle removed between frames 134 and 5 and frames 141 - 2.

STARBOARD SIDE.

Ring plate along top of wing brackets removed between frames 132
and 143 and removed faired and replaced between frames 133 and
frames 147 - 8.

Generally. Loose rivets in way of damage removed.

PRIMER.

Frame 126. Frame cropped between main prop. and 2'0" above main
deck and removed faired and replaced.

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Frame 127. Frame faired in place between Main and Upper Decks.

Frame 128. Frame faired in place between Main and Upper Decks.

Frame 129. Frame removed faired and replaced between position 2'0" below Main Deck and 6" above Upper Deck.

Frame 130. Frame removed faired and replaced between positions 6'0" above margin line at shell and 6" above S-per Deck.

Frames 131, 132, 134, 135, 137, 138, 140, 141, 143, 144, 146, 147 and 149. Removed, faired and replaced between margin line at shell and Main Deck. Upper section of these frames between 10" below Main Deck and 6" above Upper Deck cropped and removed. Original 6" x 3.1/2" x .32" R.A. Tween Deck frames cropped in Lower Tween Decks were renewed by 6" x 4" x 1/2" ordinary angle.

Frame 150. Removed, faired and replaced between 11'0" above margin line at shell and Main Deck; and Lower Tween Deck frame cropped and renewed with 6" x 4" x 1/2" angle as at 131.

Frames 133, 136, 139, 142, 145, 146. Removed, faired and replaced between margin line at shell and Upper Deck. Lower ends of Upper Tween Deck frames in way of the above main frames cut off and removed, faired and replaced butt welded and welded plate straps fitted at butts at positions approximately 6" above Upper Deck. Frame 142 was cut 20" above the Upper Deck.

GENERALITY: Frames removed and faired were generally reconditioned by means of electric welding before replacement.

WIND BACKS: Wing brackets on Frames 130 to 146 inclusive were renewed.

MAIN DECK BEAM KNEES: Main Deck beam knees in way of damage, i.e., at Frames 125 to 153 inclusive were removed, faired and replaced or renewed as found necessary.

UPPER DECK BEAM KNEES: Upper deck beam knees were removed, faired and replaced at frames 126 to 152 inclusive with the exception of the knees at frames 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 145, 146, 147 renewed.

PILLAR STARBOARD SIDE: The hold pillar seat on the tank top at the Starboard side, Frame 141, 2 & 3, was completely renewed. The cap of this pillar was also completely renewed. The cap under the Upper Deck of the Tween Deck pillar on frame 142 was completely renewed. The Lower Tween Deck pillars and hold pillars at frames 130 and 142 were removed, faired and replaced with the exception of the material already stated to have been renewed. These pillars, where of built up plate, were rivetted as found necessary. The Upper Tween Deck pillars at frames 130 and 142 were removed, faired and replaced.

HATCH & DECK GIRDERS.

Lower Deck.

Starboard Side.

The No.1 Hatch side girder, frame 130 - 142, was renewed completely and 11.1/2" x 3.1/2" x 1/2" channel ex "Port Bowen" was used as bottom flange of this girder.

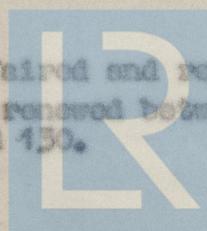
The Deck Girder was cropped and renewed between frames 142 and 149 - 150 and between frames 127 and 130.

The Port side No.1 Hatch Girder was faired in place.

Upper Deck.

No.1 Hatch Girder was removed, faired and replaced.

Forward Deck Girder cropped and renewed between frames 142 and 150 - 1 and between frames 127 - 8 and 130.



Deck and Hatch Girders Generally.

Deck cleats vertical angles and brackets were renewed or removed, faired and replaced as found necessary.

DECK.DECK.UPPER Deck Starboard Side.

Beam 130. Fairied in place.

Beams 131 to 141 inclusive removed from shell to hatch girder using 8" x 3.1/2" x 1/2" channel material ex s.s. "Port Loven".

Beam 142. Cropped at Port side deck girder and removed, faired and replaced.

Beam 143. Cropped at Port side deck girder and removed using 8" x 3.1/2" x 1/2" channel material ex s.s. "Port Loven".

Beams 144 and 145. Renewed right across ship using 8" x 3.1/2" x 1/2" channel ex s.s. "Port Loven".

The following beams were cropped and removed, faired and replaced.

Beam 146 from position 3'3" inboard of Star. deck girder out to frame.

Beam 147 " " 2'0" " " " " " "

Beam 148 " " 2'0" " " " " " "

Beam 149 " " 2'0" " " " " " "

Beam 150 " " 1'3" " " " " " "

Beam 151 2'0" of outboard end was removed, faired and replaced.

UPPER Deck Beams Starboard Side.

Beam 126 fairied in place.

Beam 127 3'0" of beam end cropped, faired and replaced.

Beam 128 1'6" of beam end cropped, faired and replaced.

Beam 129 cropped at position 2'6" inboard of starboard deck girder and faired and replaced.

Beam 130 cropped at position 4'8" inboard of starboard hatch girder and removed, faired and replaced.

Beams 131 to 141 inclusive removed from shell to starboard hatch girder using 8" x 3.1/2" x 1/2" channel, material ex s.s. "Port Loven".

Beams 142, 143, 144, 145, 146 & 147 were cropped and removed from port deck girder to starboard shell and renewed using 8" x 3.1/2" x 1/2" channel material ex s.s. "Port Loven".

Beam 148 3'0" of beam end cropped and removed, faired and replaced.

PLATING.

UPPER DECK. Starboard stringer plate was renewed between frames 127 and 132. Plating abreast No.1 hatch on starboard side renewed. Plating at fore and aft ends of No.1 hatch removed and faired or renewed as found necessary. Stringer angles and frame toe angles renewed in way of renewed stringer plate.

The No.1 Hatch Starboard Coaming bulb angle renewed and port and end coamings removed, faired and replaced.

Two new hatch beams made and fitted.

Two hatch beams faired.

No.1 Hatch rest bars renewed.

UPPER DECK. The starboard stringer plate was renewed between frames 127 and 145.

Plating alongside starboard side and just forward of No.1 hatch was renewed.

A short piece of plate 6'9" x 14" was renewed at port side of No.4 hatch. Intermediate strakes between stringer and starboard hatch side strake was removed, faired and replaced.

The hatch coamings were renewed, faired and replaced.

Deck stringer and frame toe angles renewed in way of renewed stringer plates.

Two hatch beams faired.

No.4 Hatch rest bars renewed.

MID STRINGS. The lowest stringer was renewed completely between frames 140 and 148.

The upper and top stringers were renewed completely between frames 135 and 131.



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Sparring and Coiling over Ridges in No. 1 Hold. On Port removed as found necessary. Starboard side renewed completely. Sparring in No. 1 Lower Tween Decks renewed. Sparring in No. 1 Upper Tween Decks reconditioned. Sparring supports flats reconditioned and cleats renewed where necessary.

CANTER HEAD AND BREAKAWAY. The angle attachment bar to hatch being fairied, rivetted and welded.

All the above work was carried out to my satisfaction, skill and workmanship and tests satisfactory, the vessel being put back to her original good condition. This work which should have been completed in eight weeks has taken nearly nine weeks. The delay is due to the fact that the Repairers have had urgent naval work to complete and other work of national importance; inclement weather has also kept the work back.

The following is a list of Deck and Engine Room Stores lost as a result of the collision and which will require to be replaced:

DECK STORES.

10 feet 6 x 1 Dummage
2" Mooring Line (New)
Coil 2.1/2" wire
White Lead
Carpenter's Tool Bag containing:-
With Hand Saw
Carpenter's Ratchet Brace
1" Auger 21" long
1/2" Centre Twist Bit
Hand Hammer
Pin Saul
Chisel

Ex No. 1 Hold & Tween Decks.

Ex No. 1 Shelter Deck.

Ex No. 1 Shelter Deck where Carpenter was repairing Hatches.

Spanlins 31 x 22
" 36 x 22
Hatches 5'6" x 2" x 3"

Ex No. 1.

Ex No. 2.

Ex Nos 1 & 2.

ENGINE ROOM STORES.

One Fuel Oil

Ex No. 1 D.E. Tank.

Spotlight torches lost during investigations.

Electric globes 110 volts 60 watt
" " " 40 "
" " " 100 "

Broken in impact of collision.

Charged. £151. 6. 0.

L. J. H.
SURVEYOR TO LLOYD'S REGISTER.
WELLINGTON, N.Z.

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