

## REPORT of SURVEY for REPAIRS, &amp;c.

Date of writing Report 6/11/31 When handed in at Local Office 12/11/31 Port of Hakodate.  
 No. in Survey held at Hakodate. Date, First Survey 14/9/31 Last Survey 30/11/1931.  
 Reg. Book. 26928. on the W.W.W.W.W. Steel Single screw Steamer "LIVERPOOL MARU" (No. of Vessel Twenty four.)

TONNAGE: — Built at Kobe. By whom Kawasaki Dockyard Co. Ltd. When 1919 YEAR. MONTH. 4  
 GROSS 5864 Owners Kokusai Kisen K. K. Owners' Address  
 UNDER DK. 5586 Managers Manglers (if not already recorded in Appendix to Register Book).  
 NET 4259 Port belonging to Kobe.

Surveyed Afloat or in Dry Dock? Dry Dock Name of Dock Hakodate. Destined Voyage  
 WB=CellDBorDBa feet; uE&B feet; f feet  
 total capacity tons. FPT tons; APT tons; MT feet tons. } Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).

N.B.—All alterations in the existing records should be underlined.  
 If the Vessel has Water Ballast Tanks, state whether the manhole covers have been removed, and the insides of the tanks examined. Also state the amount of deterioration (if any) found in the thicknesses of the floors, framing, girders, and of the inner bottom plating, especially in the boiler space.

Last Report, No. 19756 Port Han.

(Periodical Surveys, when held, must be reported in detail and serially in the terms of the Rules. State clearly the cause of Repairs, if any, and, in detail, the nature and extent of Examinations and subsequent repairs. Repairs on account of Damage (the cause of which must be stated) should be separated from Repairs due to other causes; and besides being detailed in the body of the report, should be summarised in the form shown below. Whenever the replacement of Anchors or Chains is reported, the particulars should be clearly stated in the space provided on the back of this form. State also the dates and initials of any letters respecting this case.)

In damage cases where the Surveyor has not made a special damage report he is required to state whether he offered his services for this purpose and to whom and why they were declined —

Society's Freeboard (if assigned) as painted on Ship and now verified } 9 ft. 3 1/2 ins.

Was a damage report made by anyone else? If so, by whom? —

REPAIRS, OR EXAMINATION AS PER RULE, FOR S.S. No. 3 + Damage Stated to have been caused by vessel stranding at Atoya Misaki, Kunajiri Island on passage from Shikoku, Kabafuto to Nagoya, and during salvage operations. For further particulars see Hakodate Damage report dated 30/10/31.  
Now Done:— Vessel placed in dry dock. Hull, bottom, rudder, stern frame, stem cleaned, examined & found or now placed in good condition, afterwards recoated. Holds, tween decks, fore & after peaks, & chain locker, engine and boiler spaces and coal bunkers, cleaned for survey, ceiling lifted as required by rules, all oxidation removed from all parts, and all steel work throughout all parts of the vessel carefully examined and found or now placed in good condition, afterwards recoated. Lining on ship's side removed in way of sidelights & plating in way of same examined and found in good condition. (P.T.O.)

SUMMARY OF DAMAGE REPAIRS:—	Shell Plates.	Frames.	R. Frames.	Floors.	(S.S.) Side Girders.	Other Items.	Other Items.
Renewed ... ..	84	60	101+8	57	10	2+4	stem frame. Rudder.
Removed and Paired or Repaired ... ..	34	230	113+2	287	3	4	renewed renewed renewed
Paired or Repaired in place ... ..	19	26	4	22+4	16	1	3

## PRESENT CONDITION OF THE

Decks <u>Good.</u>	State if Tanks have been examined inside <u>Yes</u>	Dblg. Plates under Sounding Pipes <u>Good</u>	Copper, or I.M. of Wood Vessels. (State if on Felt). When put on, Month — Year —
Caulking of Decks <u>—</u>	State if Tanks now tested <u>Yes</u>	Engine Room Skylights <u>—</u>	Boats <u>Good</u>
Coamings <u>—</u>	Bulkheads <u>Good</u>	Coal Bunkers, Open'gs, Lids, &c. <u>—</u>	Masts, Yards, &c. <u>—</u>
Beams & Fastenings <u>—</u>	Ceiling <u>—</u>	Scuppers <u>—</u>	Condition, how ascertained <u>from deck.</u>
Outside Plating <u>—</u>	Cement or Asph. (State which). <u>—</u>	Cargo Hatchways <u>—</u>	(State if wedges removed) <u>Angle</u>
Breasthooks <u>—</u>	Rudder. (new) <u>—</u>	Hatches <u>—</u>	Sails <u>—</u>
Transoms <u>—</u>	Steering gear and its connections <u>—</u>	Planking of Wood Vessels <u>—</u>	Equipment letter <u>Y</u>
Frames <u>Good</u>	Windlass <u>—</u>	Caulking ditto <u>—</u>	Anchors, No. of <u>3 B. 1 S. 1 K.</u>
Reverse Frames <u>—</u>	Have Pumps now been examined and found efficient? <u>Yes</u>	Treenails ditto <u>—</u>	Cables (State if now ranged). <u>Yes</u>
Longitudinals <u>—</u>	Have Sluice Valves now been examined and found efficient? <u>—</u>	Breasthooks & Stemson ditto <u>—</u>	" length <u>270 fms.</u> size <u>2 1/2"</u>
Transverses <u>—</u>	Have Watertight Doors now been examined and found efficient? <u>Yes</u>	Transoms, Pointers, & Crutches ditto <u>—</u>	" (on board) <u>270</u> size <u>2 3/4"</u>
Floors <u>Good</u>	Have Ventilators and their Coamings been examined and found efficient? <u>Yes</u>	Timbers of Frame at openings ditto <u>—</u>	Hawser & Warps <u>Good</u>
Keelsons <u>—</u>		Ditto ditto at other places ditto <u>—</u>	Standing and Running Rigging <u>—</u>
Stringers <u>—</u>		Stringers, Clamps & Shelves ditto <u>—</u>	
Inner Bottom Plating <u>Good</u>		Salting (State if examined). ditto <u>—</u>	

General Observations, Opinion as to Class, Recommendation, &c.:— This vessel is in good condition & eligible in our opinion to be continued as classed with fresh record of survey 10, 31, and the notation S.S. Hak. No. 3 - 10, 31, subject to one length of chain cable being renewed in about 3 months' time.

Survey Fee (per Section 20) 250.00  
 Special Damage or Repair Fee (if any) (per sec. 20) 1,700.00  
 Travelling Expenses (if chargeable) 431.22  
 Sunday attendance fee. 40.00  
 (Including machinery)

Fees applied for, 9/11/1931

Received by me, 19

Committee's Minute

FRI. 11 DEC 1931

Character Assigned

108A Subject to  
Running deck with freeboard  
S.S. No. 3 - 11, 31 + LMC. 10-31  
(S.V.) 10-31 OG

CERTIFICATE WRITTEN

FRI. 15 JAN 1932

Lloyd's Register Foundation

007620-007625 -0129 1/10







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C side girders:- 7 frame spaces removed, fained &amp; refitted.

D side girders (half girders):- 7 frame spaces removed, fained &amp; refitted.

Starboard side:- Solid floor plates:- 13 in No renewed at F Nos. 143, 144, 146, 147, 154, 158, 160, 161, 166, 167, 168, 169 &amp; 170, 11 in No. removed, fained &amp; refitted at F Nos. 145, 148, 149, 155, 156, 159, 162, to 165 &amp; 171 and 5 in No. fained in place at F Nos. 150 to 154.

Skeleton floor:- 2 brackets at F No. 142 removed, fained &amp; refitted.

W.T. floor:- crop &amp; part renewed at F No. 141 together with boundary angle.

Frame angles:- 2 in No renewed at F Nos. 166 &amp; 168, 22 in No. removed, fained &amp; refitted at F Nos. 143 to 149, 155 to 165, 167 &amp; 169 to 171 and 5 in No. fained in place at F Nos. 150 to 154. (Frames at F Nos 146 to 171 were fitted with double angles.)

Bulk angle frame at skeleton floor of F No. 142 removed, fained &amp; refitted.

A side girders:- (half girders from F Nos. 144 to 159), one frame space renewed and 18 frame spaces removed, fained &amp; refitted.

B side girders:- One frame space renewed and 14 frame spaces removed, fained &amp; refitted.

C side girders:- 5 frame spaces removed, fained &amp; refitted.

D side girders (half girders):- 5 frame spaces removed, fained &amp; refitted.

No. 2 Double bottom Tank. (F Nos. 91 to 141.)

Port side:- Solid floor plates:- 3 in No renewed at F Nos. 97, 98 &amp; 139, 7 in No. crop &amp; part renewed at F Nos. 111, 113, 115, 125, 129, 131 &amp; 136, 5 in No. crop &amp; part renewed, and part removed fained &amp; refitted at F Nos. 99, 101, 103, 105 &amp; 117, 3 in No. crop &amp; part renewed, and part fained in place at F Nos. 103, 119 &amp; 127, 2 in No. crop &amp; part removed fained &amp; refitted at F Nos. 133 &amp; 137 and 6 in No fained in place at F Nos. 93 to 95, 109, 121 &amp; 135.

W. T. floor plate:- crop &amp; part renewed at F No 91 together with boundary angle.

Skeleton floors:- 20 in No at F Nos. 92, 96, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 122, 124, 126, 128, 130, 132, 134 &amp; 140, brackets buckled. 10 brackets renewed, 12 brackets removed fained &amp; refitted and 4 brackets fained in place.

Frame angles:- One in No renewed at F No. 99, One in No. crop &amp; part renewed, and part removed, fained &amp; refitted at F No. 105, 9 in No. removed, fained &amp; refitted at F Nos. 97, 98, 101, 103, 117, 119, 127, 137 &amp; 139, One in No. crop &amp; part removed, fained and refitted, and part fained in place at F No. 107, 8 in No. crop &amp; part removed, fained &amp; refitted at F Nos. 111, 113, 115, 125, 129, 131, 133 &amp; 136 and 5 in No. fained in place at F Nos. 93 to 95, 121 &amp; 135.

Bulk angle frames at skeleton floors:- 5 in No. renewed at F Nos. 96, 100, 102, 104 &amp; 106, 11 in No. removed, fained &amp; refitted at F Nos. 92, 114, 116, 118, 126, 128, 130, 132, 134, 138 &amp; 140, One in No. crop &amp; part removed, fained &amp; refitted at F No. 124 and 2 in No. fained in place at F Nos. 110 &amp; 112.

B. side girders:- 3 frame spaces renewed and 19 frame spaces (Continued).



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removed, fained &amp; refitted.

C side girders:- 2 frame spaces renewed and 23 frame spaces removed, fained &amp; refitted.

Starboard Side:- Solid floor plates:- 6 in No. renewed at F Nos. 97 to 99, 101, 103 &amp; 109, 3 in No. crop &amp; part renewed at F Nos. 129, 133 &amp; 137, 3 in No. crop &amp; part renewed, and part removed, fained &amp; refitted at F Nos. 105, 111 &amp; 121, 11 in No. crop &amp; part renewed, and part fained in place at F Nos. 93 to 95, 107, 113, 115, 123, 125, 127, 131 &amp; 139 and 4 in No. fained in place at F Nos. 117, 119, 135 &amp; 136.

W.T. floor:- crop &amp; part renewed and part fained in place, and boundary angle crop &amp; part renewed at F No. 91.

Skeleton floors:- 21 in No. at F Nos. 92, 96, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 132, 134, 138 & 140, brackets buckled, 6 brackets renewed, 20 brackets removed, fained <sup>& refitted</sup> ~~in place~~ and 4 brackets fained in place.Frame angles:- One in No. renewed at F No. 99, 2 in No. crop & part renewed at F Nos. 123 & 137, 3 in No. crop & part renewed, and part fained in place at F Nos. 93, 94 & 133, 8 in No. removed fained & refitted at F Nos. 97, 98, 101, 103, 105, 109, 111 & 113, 8 in No. crop & part removed, fained & refitted at F Nos. <sup>95</sup> 107, 121, 125, 127, 129, 131 & 139 and ~~4~~ <sup>4</sup> in No. fained in place at F Nos. 115, 119, 135 & 136.

Bull Angle frames at Skeleton floors:- 21 in No. removed fained &amp; refitted at F Nos. 92, 96, 100, 102, 104, 106, 108, 110, 112, 114, 118, 120, 122, 124, 126, 128, 130, 132, 134, 138 &amp; 140 and One in No. fained in place at F No. 116.

Tank top reverse frame:- fained in place at F No. 100.

B side girders:- 4 frame spaces renewed, 8 frame spaces removed, fained &amp; refitted and 5 frame spaces fained in place.

C side girders:- 5 frame spaces renewed, 15 frame spaces removed, fained &amp; refitted and 3 frame spaces fained in place.

Fresh Water Double Bottom Tank. (F Nos. 70 to 91.)

Port Side:- Solid floor plates:- 2 in No. renewed at F Nos. 84 &amp; 86, One in No. crop &amp; part renewed, and part removed, fained &amp; refitted at F No. 87, 8 in No. crop &amp; part renewed, and part fained in place at F Nos. 75 to 79, 81, 82 &amp; 89, 2 in No. crop &amp; part renewed at F Nos. 74 &amp; 80 and One in No. fained in place at F No. 73.

Skeleton floors:- 4 in No. at F Nos. 83, 85, 88 &amp; 90, brackets buckled, One bracket renewed and 3 brackets removed, fained &amp; refitted.

Frame angles:- 3 in No. renewed at F Nos. 81, 82 &amp; 86, 4 in No. crop &amp; part renewed at F Nos. 77 to 80, 2 in No. removed, fained and refitted at F Nos. 84 &amp; 87, 4 in No. crop &amp; part removed, fained and refitted at F Nos. 74 to 76 &amp; 89 and One in No. fained in place at F No. 84.

Bull angle frames at Skeleton floors:- 3 in No. renewed at F Nos. 83, (Continued.)



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85 + 88 and One in No. removed, faired + refitted at F No. 90.

Tank top reverse frame:- removed, faired + refitted at F No. 85.

A Side girders:- 5 frame spaces renewed and 4 frame spaces removed, faired + refitted.

B side girders:- 6 frame spaces renewed and 12 frame spaces removed, faired + refitted.

C side girders:- 4 frame spaces renewed, 3 frame spaces removed, faired + refitted and 5 frame spaces faired in place.

Starboard Side:- Solid floor plates:- 2 in No. renewed at F Nos. 84 + 87, 8 in No. crop + part renewed, and part removed, faired and refitted at F Nos. 71 to 74, 81, 82, 86 + 89, 3 in No. crop + part renewed, and part faired in place at F Nos. 78 to 80 and 3 in No. removed, faired + refitted at F Nos. 75 to 77.

Skeleton floors:- 4 in No. at F Nos. 83, 85, 88 + 90, brackets buckled, 3 brackets renewed and 4 brackets removed, faired + refitted.

Frame angles:- One in No. crop + part renewed at F No. 78, One in No. crop + part renewed, and part removed faired + refitted at F No. 72, 12 in No. removed, faired + refitted at F Nos. 71, 73 to 77, 81, 82, 84, 86, 87 + 89 and 2 in No. crop + part removed, faired + refitted at F Nos. 79 + 80.

Bulk angle frames at Skeleton floors:- 4 in No. removed, faired and refitted at F Nos. 83, 85, 88 + 90.

Tank top reverse frames:- faired in place at F Nos. 86, 88 + 90.

A side girders:- One frame space renewed and 8 frame spaces removed, faired + refitted.

B side girders:- 5 frame spaces renewed and 14 frame spaces removed, faired + refitted.

C side girders:- 5 frame spaces renewed and 13 frame spaces removed, faired + refitted.

3 Double Bottom Tank. (F Nos. 41 to 69.)

at Side:- Solid floor plates:- 5 in No. renewed at F Nos. 42, 44, 46, 48 + 60, One in No. crop + part renewed, and part removed, faired + refitted at F No. 62, 5 in No. crop + part renewed, and part faired in place at F Nos. 48, 50, 64, 66 + 68, One in No. crop + part removed, faired + refitted at F No. 49 and 3 in No. faired in place at F Nos. 52, 54 + 56.

W.T. floor:- removed, faired + refitted at F No. 41 and boundary angle crop + part renewed, and part removed, faired + refitted.

N.T. floor:- Crop + part renewed, and part removed, faired + refitted at F No. 69 together with boundary angle.

Skeleton floors:- 9 in No. at F Nos. 43, 45, 47, 57, 59, 61, 63, 65 + 69, brackets cracked or buckled, 5 brackets renewed, 4 brackets removed, faired + refitted and 2 brackets faired in place.

Frame angles:- One in No. crop + part renewed, and part removed, faired + refitted at F No. 48, 5 in No. removed faired + refitted at F Nos. 42, 44, 46, 58 + 60, 7 in No. crop + part removed, faired + refitted at (Continued.)



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F Nos. 49, 54, 56, 62, 64, 66 & 68 and 2 in No. failed in place at F Nos. 50 & 52.

Bulb angle frames at skeleton floors:- 10 in No. removed, failed and refitted at F Nos. 43, 45, 47, 53, 55, 57, 59, 61, 63 & 65, One in No. crop & part removed, failed & refitted at F No. 67. and One in No. failed in place at F No. 51.

B side girders:- 3 frame spaces renewed, 17 frame spaces removed, failed & refitted and One frame space failed in place.

C side girders:- One frame space renewed and 8 frame spaces removed, failed & refitted.

Inboard Side:- Solid floor plates:- one in No. renewed at F No. 58, 2 in No. crop & part renewed, and part removed, failed & refitted at F Nos. 60 & 68, 3 in No. crop & part renewed, and part failed in place at F Nos. 50, 52 & 54, 7 in No. removed, failed & refitted at F Nos. 42, 44, 46, 48, 62, 64 & 66, One in No. crop & part removed, failed & refitted at F No. 49. and One in No. failed in place at F No. 56.

W.T. floor:- crop & part renewed, and part failed in place. Boundary angle crop & part removed, failed & refitted at F No. 41.

W.T. floor:- failed in place at F No. 69.

Skeleton floors:- 11 in No. at F Nos. 45, 47, 51, 53, 55, 57, 59, 61, 63, 65 & 67, brackets cracked or buckled, 5 brackets renewed, 9 brackets removed, failed & refitted and 3 brackets failed in place.

Frame angles:- 10 in No. removed, failed & refitted at F Nos. 42, 44, 46, 48, 58, 60, 62, 64, 66 & 68, 4 in No. crop & part removed, failed & refitted at F Nos. 49, 50, 52 & 54 and One in No. failed in place at F No. 56.

Bulb angle frames at skeleton floors:- 10 in No. removed, failed & refitted at F Nos. 43, 45, 47, 53, 57, 59, 61, 63, 65 & 67 and 2 in No. crop & part removed failed & refitted at F Nos. 51 & 55.

B side girders:- 2 frame spaces renewed, 16 frame spaces removed, failed & refitted and 2 frame spaces failed in place.

C side girders:- 19 frame spaces removed failed & refitted.

Well at aft end of Engine Room. (F Nos. 69 to 70.)

Side girders, 3 in No. on P & S sides renewed.

Double Bottom Tank. (F Nos. 14 to 41.)

At Side:- Solid floor plates:- 22 in No. renewed at F Nos. 15 to 36, 3 in No. crop & part renewed, and part removed, failed & refitted at F Nos. 37, 39 & 40 and One in No. removed, failed & refitted at F No. 38.

W.T. floor:- renewed at F No. 14 together with boundary angle.

Frame angles:- 11 in No. renewed at F Nos. 15, 16, 17, 19, 20, 21, 22, 23, 24, 30 & 35 and 15 in No. removed, failed & refitted at F Nos. 18, 25, 26, 27, 28, 29, 31, 32, 33, 34, 36, 37, 38, 39 & 40.

B side girders:- 4 frame spaces renewed & 7 frame spaces removed, failed & refitted.

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Starboard side:- Solid floor plates:- 10 in No renewed at F Nos. 16 to 24 + 31, 8 in No. crop + part renewed, and part removed, faired + refitted at F Nos. 30, 32, 33 + 35 to 39 and 8 in No. removed, faired + refitted at F Nos. 15, 25 to 29, 34 + 40.

W.T. floor:- released + faired in place at F No. 14 together with boundary angle.

Frame angles:- 2 in No renewed at F Nos. 16 + 24, 23 in No. removed, faired + refitted at F Nos. 17 to 23 + 25 to 40 and one in No. faired in place at F No. 15.

B. Side girders:- 11 frame spaces removed, faired and refitted.

2 Girders. 9 C.G. plates renewed at about F Nos. 8 to 17, 17 to 26, 26 to 37, 37 to 49, 60 to 69, 81 to 87, 96 to 108, 108 to 116 + 167 to 172.

One C.G. plate crop + part renewed, + part faired in place at about F Nos. 141 to 152.

One C.G. plate removed, faired + refitted at about F Nos. 158 to 167.

Bottom angles (Port side) renewed at about F Nos. 8 to 15, 15 to 24 + also 80 to 89, and removed, faired + refitted at about F Nos. 24 to 33, 33 to 46, 57 to 70, 93 to 106, 106 to 118, 141 to 160 + 160 to 172.

Bottom angles (Star. side) renewed at about F Nos. 8 to 18, 18 to 27 + 79 to 88, and removed, faired + refitted at about F Nos. 27 to 39, 39 to 51, 62 to 67, 98 to 111, 111 to 117, 138 to 157 + 157 to 172.

Side Margin Plates etc.

1 Hold:- Port side:- one margin plate crop + part removed, faired + refitted at about F Nos. 167 to 172, and bottom angle crop + part renewed.

2 Tank side brackets renewed, and 4 tank side brackets removed, faired + refitted.

Starboard side:- One margin plate faired in place at about F Nos. 166 to 170 together with bottom angle.

2 Hold:- Port side:- one margin plate crop + part renewed at about F Nos. 117 to 121 together with bottom angles, also one margin plate faired in place at about F Nos. 124 to 133 and bottom angle removed, faired and refitted.

3 Tank side brackets removed, faired + refitted.

Starboard side:- <sup>one</sup> margin plates crop + part renewed, and <sup>one</sup> part faired in place at about F Nos. 89 to 110, and one bottom angle <sup>mk.</sup> in way of same removed, faired + refitted.

Bunkers:- Starboard side:- One margin plate crop + part renewed, and part faired in place at about F Nos. 79 to 89, also bottom angle removed, faired + refitted.

6 Tank side brackets removed, faired + refitted.

3 Hold:- P. side:- margin plate bottom angle removed, faired + refitted at about F Nos. 41 to 47.

4 Hold:- P. side:- One margin plate renewed at about F Nos. 14 to 24.

2 margin plates crop + part removed faired + refitted at about F Nos. 28 to 35.

Margin plate bottom angles distorted, crop + part renewed, (Continued.)



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and part removed, faired &amp; refitted at about F Nos. 14 to 41

One tank side bracket renewed.

3 tank side brackets removed, faired &amp; refitted.

After Peak Tank:- One frame doubled at F No. 5 on P. side. Three frames faired in place at F Nos. 5, 6 & 7 on S. side. Three stiffeners on wash plate renewed. Center girder faired in place at F Nos. 7 & 8, and bottom angles in way of same removed, faired & refitted.

Tunnel Recess:- P. side:- 2 floors renewed at F Nos. 12 & 13, 2 floors removed, faired & refitted at F Nos. 10 & 11 & one floor faired in place at F No. 9.

2 frames renewed at F Nos. 12 & 13, 2 frames removed, faired & refitted at F Nos. 10 & 11 and one frame faired in place at F No. 9.

Starboard side:- 5 floors removed faired & refitted at F Nos. 9 to 13.

5 frames removed, faired & refitted at F Nos. 9 to 13.

Tunnel:- One plunger block seat faired in place.

Auxiliary Boiler Recess:- One plate at fore end bulkhead faired in place, and wood sheathing on the same bulkhead removed for examination together with wood sheathing on bulkhead at fore end of Boiler room at F No. 93 and found in order.

Side Bunkers:- P. side:- One plate at aft end bulkhead & one plate at side bulkhead crop & part renewed.

Starboard side:- 4 plates at side bulkhead crop & part renewed.

2 stiffeners on side bulkhead bent, one renewed and the other crop & part renewed.

Green Bulkhead at aft end of No. 2 Hold at F No. 113:- 2 plates on S side bottom faired in place and foundation angles released & faired in place.

Tank Top Plating:- After part of No. 2 hold and cross bunker hold, tank top plating generally set up faired in place.

Stern frame broken & renewed. mark:-

LLOYD'S NO. 778 A-B  
M.K. & M.K. 6-10-31

Rudder main piece & plate broken & renewed.

Mark on rudder main piece:-

LLOYD'S NO. 775  
M.K. & M.K. 29-9-31

The original stream line rudder has been replaced by a new rudder of reaction type with a stern frame to suit in accordance with a attached plan approved 12/9/31.

Rudder stock bent & twisted & renewed. mark:-

LLOYD'S NO. 774  
M.K. & M.K. 29-9-31

Hand steering gear screw shaft bent & broken & renewed, also cross head & link plate removed, aligned & refitted.

Mark on screw shaft:-

LLOYD'S NO. 3052  
19.5.31  
R. H.A.G.

Steering Quadrant removed for unshifting stock and a few slackened rivets on same renewed.

Quadrant stopper broken & renewed, & bracket removed faired & refitted.

Stem, lower half bent & twisted & renewed.

Mark 1-

LLOYD'S NO. 773  
R. M.K.  
26-9-31

Steering chain & rods removed & annealed.

Chain cables ranged & examined & a few studs renewed.



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indlass, steering engine & all winches opened up, examined & found in order.

All double bottom tanks and fore & after peak tanks tested on completion of repairs & found tight, also repaired shell plating hose tested and found tight.

All ceiling lifted in holds & bunkers & renewed where necessary.

The lower holds & tunnel cleaned & painted.

Bilge, ballast, air & sounding pipes overhauled & renewed where found broken or damaged.

The bottom recoated & draft marks cut in & painted on stem and stern frame.

A number of rivets in double bottom tanks and fore & after peak tanks etc. renewed.

The cement in bottom & bilges renewed, and inside of double bottom cement washed.

etc. due to salvage operation:-

40 hatch boards renewed.

9 canvas covers of ventilator socket renewed.

4 sheets of tarpauline supplied

One Tenma (Jolly boat) renewed.

One life boat repaired where necessary.

10 shifting beams straightened

20 ft. of bulwark plate with side rail straightened.

The main mast rigging renewed.

One coil of 8 inches hawser supplied.

All weather deck (wood) caulked & payed.

Side plate, No. 3 from stem in 3rd. strake below sheer fained in place.

Sundry minor repairs carried out.

due to wear & tear:-

all plate on S side:- No. 2 from stem in 2nd. strake below sheer part doubled. <sup>(7/16" x 3'0" x 3'-1")</sup>  
stringer plates on <sup>S. side of</sup> turning deck:- 2 stringer plates abreast the Deck house badly waved, doubled with 3 plates (1/2" x 3'-9" x 5'-0").

side bunkers:- The following stringer & deck plates drilled, wore & repaired as follows:-

Lower Tween DK P. side:- One stringer plate renewed & one deck plate renewed.

" " " S. side:- One deck plate renewed.

Upper Tween DK P. side:- One stringer & five deck plates renewed.

Two deck plates part doubled. (4'-2" x 5'-0" x 3/8" & 2'-0" x 5'-0" x 3/8").

11 stiffeners & one boundary angle on boiler casing renewed.

Boiler casing & Trunk way for coal:- doubling fitted on (4 places).

Water tight bulkhead at fore end of side bunkers (F No. 93) between lower and upper Tween deck:- One plate on P. & one plate on S. crop & part renewed. (P = 3/8" x 2'-6" x 8'-6". S = 3/8" x 2'-6" x 8'-6".)

Compensation of Deck girders at Hatch corners for No. 2 Hatch aft end corner P. & S., No. 3 Hatch fore & aft end corners P. & S. and No. 4 Hatch fore end corner P. & S.:- The original brackets on longitudinals replaced with large size brackets by cutting beams in way of same, & beams stiffened by lugs.



at Kodate.

Continuation of Report No. 117. dated

6/11/31.

on the S.S. "LIVERPOOL  
MARU".

2 Double bottom tank:- One 4" suction valve & piping newly fitted and connected to the ballast piping.

2 floor plates doubled. ( $\frac{1}{2}$ " x 1'-0" x 8'-6" x 2.)

ash water double bottom tank:-

21 floor plates (top half) doubled. ( $\frac{1}{2}$ " x 1'-0" x 8'-6" x 21.)

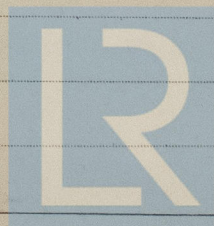
3 Double bottom tank:- One 4" suction valve & piping newly fitted and connected to the ballast piping.

masts:- top mast (wood) of main & fore mast drawn out, examined and found in order.

rigging:- 2 main mast rigging renewed.

Sundry minor repairs effected.

:- This vessel's name to be deleted from S.R.L. in respect of stern frame & rudder main piece also stream line plate of rudder as they have now been renewed. H.K.



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Lloyd's Register  
Foundation

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