

REPORT OF SURVEY FOR REPAIRS, &c.

Date of writing Report 14th Sept 1946. When handed in at Local Office 1946. Port of DUBLIN.
 No. in Survey held at RUSHBROOK. Date, First Survey 24th Sept 45. Last Survey 9th SEPTEMBER 1946.
 Reg. Book. 45630 on the Wood, Iron or Steel S.S. "IRISH ELM" (No. of Visits 49.)

TONNAGE:— Built at SUNDERLAND. By whom J. L. THOMPSON & SONS LTD. When 1910. MONTH. 1.
 GROSS 4199 Owners IRISH SHIPPING LTD. Owners' Address
 UNDER DECK 3830 Managers Port belonging to DUBLIN.
 NET 2541

Surveyed Afloat or in Dry Dock? Both Name of Dock RUSHBROOK Destined Voyage
 Cell/Dor/Dba feet; uE & B feet; f feet
 total capacity tons. FPT tons; APT tons; MT feet tons.

Only alterations in the existing records of tanks should be inserted.

N.B. All alterations in the existing records should be underlined.

Last Report, No. 6062 Port S. Dub

(Periodical Surveys, when held, must be reported in detail and serially in the terms of the Rules and Items remaining to complete the Surveys should be summarised. 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. Yes, no

Society's Freeboard (if assigned) as painted on Ship and now verified 4 ft. 8 1/4 ins.

REPAIRS, OR EXAMINATION AS PER RULE, FOR Damage and Special Survey.

Damage alleged to have been sustained through; 1st heavy weather 20th November to December 1942, Voyage Port Talbot to Tampa.
 2nd S.S. "CITY OF ANTWERP" collision on 26th July 1943 at Swansea.
 3rd - cause not stated.

Damage Repairs.

1st Heavy weather, Temporary repairs carried out at Tampa removed. Wheel and bridge deck house internal fittings removed coaming and deck angles renewed, internal fittings replaced with part new material.

2nd S.S. "CITY OF ANTWERP" collision.

SUMMARY OF DAMAGE REPAIRS:—	Shell Plates.	Frames.	R. Frames.	Floors and Bracket Floors	Beams.	Inner Bottom Plates.	Dk. Plates.	Other Items:—
Renewed ...	3	3	✓	✓	✓	✓	✓	Wheel & bridge deck house dismantled coaming & deck angles renewed.
Removed and Fair'd or Repaired	✓	✓	✓	✓	✓	✓	✓	
Fair'd or Repaired in place	8	2	✓	✓	✓	✓	✓	

PRESENT CONDITION OF THE

Decks	good	Bulkheads	good	Engine Room Skylights	good	Copper, or Y.M. (State if on Felt.)	
Caulking of Decks	do.	Ceiling	do.	Coal Bunkers, Openings, Covers, &c.	do.	When fitted, Month	Year
Coamings	do.	Cement	do.	Oil Bunkers	✓	Boats	good
Beams & Fastenings	do.	Rudder	good	Scuppers	good.	Masts, Yards, &c.	good
Outside Plating	do.	Steering gear and its connections	good	Cargo Hatchways	good.	Condition, how ascertained on ground.	
" " in way of sidelights	good	Windlass	good	Hatches	good.	Equipment letter	✓
Frames	good	Have pumps been examined and found efficient?	yes, good	Planing		Anchors, No. of	3B. 1S. ✓
Reverse Frames	do.	Have Sluice Valves been examined and found efficient?	yes, good.	Caulking		Cables (State if now ranged)	yes. ✓
Longitudinals	do.	Have Watertight Doors been examined and found efficient?	yes	Treenails		" length 270' mean diam. 2 1/2" (on board.)	✓
Transverses	do.	Have Ventilators and their Coamings been examined and found efficient?	yes	Breasthooks & Stemson		" Rule length 270' size 2 1/2" ✓	
Floors	do.	Air and Sounding Pipes	good	Transoms, Pointers & Crutches		Chain Locker	good
Keelsons	do.	Doubling Plates under Sounding Pipes	good	Timbers of Frame at openings		Hawsers & Warps	do.
Stringers	do.			" " at other places		Standing and Running Rigging	good.
Inner Bottom Plating	do.			Saling (State if examined.)		Sails	✓
Have the Tanks been examined internally?	yes						
Have the Tanks been tested?	yes.						

General Observations, Opinion as to Class, Recommendation, &c.:—

State clearly whether any and, if so, what alteration is suggested to be made in the existing classification and notification of the vessel in the Register Book consequent upon this survey, thus, for example:— "to remain as classed in the Register Book without fresh record of Survey," "to remain as classed and to have record of survey, 1,38," or "to remain as classed and to have record of survey, 1,38, and the notations of ss No. 1-38."

All the requirements for Special Survey having been complied with this vessel is now in a good and efficient condition and eligible in my opinion to remain as classed with fresh record of survey 9.46, and have the notation S.S. 9.46 in the Register Book. New length of cable supplied to be verified.

Survey Fee (per Section 29)	S.S. 46.00	Fees applied for	16 th Sept 1946.
Special Damage or Repair Fee (if any) (per Sec. 29)	31.10	Received by me,	R. B. Grier
Travelling Expenses (if chargeable)	18.13		
Second Surveyor's Fee (if any)			

Committee's Minute
 Character Assigned 9.46 Ins. subject
 Write Dub. S.S. Ins-9.46 + Hml. 9.46
 S. 8.46

Surveyor to Lloyd's Register of Shipping.

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Lloyd's Register Foundation

Is Certificate required? If so, to be sent to

012606-012609-0035 1/7

G 5.9.14 H 4.8. Laid in place.

(continued)

Dark margin brachids 106, 112, 114, 119, 120, 123, 90, 93, 94, 96, 97, 98, 99, reversed,

S.S. "IRISH CLM"

Pillar in way of hatchway stand. 2 brackets renewed. aft and pillar 2 brackets renewed. Port. brackets to tank top renewed aft and pillar brackets to tank top renewed.

Center pillar in way beam 108, faired and riveted.

Beams, 109, 110. back bar fitted.

Stringer beams, angles faired.

No 3 Starboard side. Tank margin bracket and gusset 43 renewed. Tank margin brackets Nos. 40, 42, 44 to 57 inclusive 59, 60, 61, 64, renewed.

Port side. Tank margin bracket and gusset angle 43 renewed.

Tank margin brackets Nos. 45, 47, 48, 51, 55, 56, 57, 59, 62 to 66 inclusive renewed. 68, 69, 70. mesh angle at top fitted. frames 68, 69, 70 cropped and part renewed.

Empireon bulkhead wing plate, ^{Port & Stand} lower section in way of ledge cropped and renewed. stiffener in way back bar fitted.

Tank top seams caulked. Tunnel side 4 bolts removed and rivets fitted. Side stringer bracket to bulkhead with angles renewed.

Bilge sounding pipe repaired.

No 4 Port side. Tank margin bracket and gusset angle frame 23 renewed. Tank margin brackets 12 to 18 inclusive. 24, 26, 27, 34 to 38, renewed. Starboard side. Tank margin bracket and gusset angle frame 27, renewed. Tank margin brackets 18, 20, 23 to 26, 28, 29, 32 to 38 inclusive renewed.

Bulkhead on frame 39 wing plate port & stand. cropped in way of ledge and renewed. stiffener 4th from center, port side, back bar fitted. 7th from center bracket to tank top, renewed. Stringer rivets a number renewed.

All ceiling or spanning missing or damaged replaced in good order.

Peaks.

Fore. upper stringer plate and angles renewed. Nos 3, 4, 5 frames from stem starboard side fractures E.W. and larger beam knees fitted, ladders renewed. Lower stringer plate & angles port and starboard renewed. Frames No. 7 from stem cropped & part renewed. No 8 renewed. Floors 2, 3, 5 renewed. 6, 7, 8 doubled and reverse frames renewed. 2 panting beams, face plates fitted. Wash plate with angles renewed. 2 brackets tank top port and stand. renewed. After plate on tank top port and stand, doubled. Hatch craming on upper deck renewed.

Aft. upper section Bulkhead, center plate and No 1 and 2 port and stand (5th No. renewed) Center web stiffener cropped & part renewed, angle connections to panting beams renewed, 2nd panting beam angles renewed. After frame, floor renewed. Lower section center plate port & stand. renewed. Bulkhead stiffeners Port side 1, 2, 3, 4 from center also No 2 from ship side renewed. Stand. side 1, 2, 3, 4 from center also 2 & 3 from ship side renewed. Horizontal stiffener rust bound rivets cut out and renewed. Brackets to bulkhead 4th No port & 4th No stand, renewed.

S.S. "IRISH G.L.M."

Lower beam brackets 3rd port and 3rd stand, renewed. Tank top down renewed. Upper deck all beams and knees renewed.

Bunkers

Port side. Hatch coamings forward and aft, renewed.

side stringer plates and angles cut out and renewed. Bracket on web frame renewed. Frame angle on stringer renewed. Frames 88 and 89 renewed. Pocket bunker aft end and side plating cut out and renewed. Boiler casing aft end one plate renewed. Engine room casing one plate cropped and upper portion part renewed. W.T. bulkhead in bunker, 3rd plate from ship side renewed, pocket, one plate and stringer collar, renewed.

Starboard side. Hatch coamings forward and aft renewed.

upper deck beam 81 cropped and part renewed. Frame 87 and 88 renewed. side stringer plates and angles cut out and renewed. Frame angle on stringer renewed. Boiler casing above stringer lower plate renewed. plate above cropped and part renewed. Pocket bunker aft end and side plating cut out and renewed. Bracket on web frame to stringer renewed.

Breaker saddles, bulkhead doublers fitted where necessary one forward plate renewed.

E. & B. space.

Stringers lower between engine room and bunker bulkheads P & S, renewed. Horizontal stiffener brackets from stringer to bulkheads renewed.

Shell frames Boiler room port side. Web frame 79, cropped & part renewed, angles cropped and part renewed. Frame 80⁸¹ cropped and part renewed at bottom tank side bracket at frame 80 flange cropped and reverse angles fitted. Frames 82, 83, 84, 85, 86, 88 with brackets renewed. Boiler room starboard side. Frames, 80, 81, 82, 83, 84, 85, 86, cropped and part renewed bruts E.W. & plates fitted. Tank side bracket at frame 87, renewed.

Boiler studs 3 foundation bars renewed.

Double Bottom Tanks.

No 1. Port side. Tank end doubled. Intercostals 130, 131, 132, renewed.

Stand side. Intercostals 130, 131, 144 renewed. Floor connections to margin plate angle rivets renewed where necessary.

No 2. Port side. Intercostals 90, 92, 114 outer. 96, 98, 100, 109, 120, 123, inner 104, 105 inner and outer renewed. Floors 90 and 91 lower portion doubled.

Stand side. Intercostals, 90, 91, 92, 97, 98, 100, 112, 125 inner renewed, 101, 105, 114 outer renewed, 103, 123, 124, 126, 127, 128, inner and outer renewed. Margin plate in way of pocket bunker doubler fitted.

No 3. Port side. Intercostals 69, 70, 76, outer renewed, 78 inner and outer renewed. Floor 78 top portion doubled. Tank end inner space doubler fitted. Tank top plates, 3rd renewed.

Stand side. Intercostals 68, 69, 78, 80, renewed.

S.S. "IRISH ELM"

Flows 80 top portion doubled. 82 rivets renewed. 83 floor renewed. 84 doubled. Tank top plates. 4 & 12 renewed.

In way of Intercostals 82/84 reverse frames renewed.
Tank top engineering port side, 2 bracket angles Engine seating cut out and renewed.

N°4. Port side. Floors 62, 63, 64. doubled. Intercostals 41, 42, 43, 44 inner renewed. 45, 46 outer renewed. 47 to 68 inner and outer renewed.

Starboard side. Intercostals 39, 48, 49 inner renewed. 41, 42, 44, 45, 48, 51, 54, 62 outer renewed. 47, 50, 51, 53, 55, 56, 59, 60, 61 inner & outer renewed.

Flows 60 lower portion renewed. 63, 64, 66. Part renewed.

N°5. Port side. Intercostals 21, 23, 24, 25, 30, 32, 34, 35, 36, 37, 38 renewed. Floors doubled. 28, 35, 38.

Starboard side. Intercostals 21, 28, 29, 30, 31, 32 to 36 renewed. 37, 38, 39 inner and outer renewed. Floor 38 doubled fitted. after

Tank end plate renewed.

A broken and loose cement throughout renewed.

Decks. Plates numbered from forward. A is centre stroke. E stringer.

Upper deck. A 1, 2, 6, 7, 9, 11.

renewed.

Port side. B 1, 5, 7, 8, 9, 10. C 1, 7, 8, 9, 10, 11, 14. D 1, 2, 5, 6, 7, 8, 9, 10, 12, 13. E 3, 8, 9, 10, 11, 12, 13.

renewed.

C 16. doubler fitted. C 2. capped and part renewed.

Starboard side. B 7, 8. C 7, 8, 9, 10, 11, 12, 14. D 1, 5, 6, 7, 8, 9, 10, 11, 12, 13. E 3, 8, 9, 10, 11, 12, 13.

renewed.

B 4 doubler fitted aft of N°2 hatchway.

Shell angle bars P & S in bridge space Frames 40 to 108 renewed.

Bridge deck

A 1 and 2

renewed.

Port side. B 1, 2. C 1, 2, 5, 6, 7. D 1, 4, 5, 6. E 2, 3, 4, 5. renewed.

Starboard side. B 1, 2. C 1, 2, 4, 5, 6. D 1, 2, 4, 5, 6. E 4, 5. renewed.

All removals in way of deck plates repaired, replaced in good condition with part new material where necessary. Cold deck rivets renewed.

Hatchways

N°1. Coaming deck angle fore and renewed. rest angle aft and renewed. 3 wood covers renewed.

N°3. Bridge deck coaming angle 35° renewed. coaming plate joined in place

Thru deck coaming entirely renewed rest angles fitted. fore and afters removed, and one beam athwartship fitted. 4-7 15"

N°4 coaming fore and and port side deck angle renewed. angles 3 1/2 x 3 1/2 + 1 1/2. sockets 4 x 4 1/2"

Starboard side capped to good material and renewed.

2 wood covers renewed. Thru deck hatch 4 beams capped to good material & new ends fitted.

Bridge space

Frames. Port side. Nos. 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 72, 74, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92. capped and part renewed E.W. bolts and lock straps fitted.

S.S. IRISH ELM.

Frames Stand. side. Nos. 56, 58, 60, 62, 64, 66, 68, 70, 71, 72, 73, 74, 75, 76, 77, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 90, 91, 92, 94, 96, 98, 106, - cropped and part-renewed butts E.W. and back straps fitted. Nos. 100, 102, 104, reverse angles fitted.

Bridge Forward Bulkhead. Corner brackets to frame 106 renewed. Centre stiffener bracket to deck renewed. 2, 3, 5, 6, 8, 7, stiffener brackets to deck renewed. No 4 top & bottom brackets renewed. Foundation angle part-renewed. Deck beams Nos 80 and 81 cropped and part-renewed knees renewed. Saloon, wheelhouse, Bridge (navigation) entirely dismantled and rebuilt - 10 new plates fitted, angle iron stiffeners fitted instead of flanging plates.

Accommodation port & starboard in way of the engine room casing dismantled and reconstructed with new material.

Galley port-side 2 plates and corner bar renewed, one bulkhead after renewed.

Masts & rigging. removed from vessel. Foremast entirely renewed. Main 15 feet lower section renewed. Derrick table and deck plate in way of bridge deck renewed. Rigging overhauled and refitted in good condition with part new material.

Forecastle. Foundation angles in alleyway on upper deck, 2 Nos. renewed. Bulkhead port & starboard - coaming plate 21" high renewed. 3 frames port and starboard sides - cropped to good material and renewed. Guard rails fairied and repaired as necessary. one deck plank port-side renewed, deck caulked.

E. & B. casing. one plate port-side, renewed. All rust-bound rivets cut out and renewed. Stand. side wasted plates cropped to good material and renewed. Foundation angles renewed where wasted.

Steering gear. Control rods & level wheels and 3 couplings renewed. chains annealed and tested.

Ventilators. Engine room angle rips & 2 cowls renewed.

Coamings aft end of bridge deck one port one starboard renewed. Coaming aft well port-side renewed. Coaming fore deck stand. angle renewed fracture in deck used & E.W. doublers fitted in way. Prop vent cowl renewed.

Bulwarks. Fore deck, stand. side. rail full length renewed, plates 3, 4, 5, renewed aft end of No 2 cropped & new lap raised, 7 stanchions renewed. one removed fairied and refitted. Port-side: 42 feet of rail renewed. Two plates and seven stanchions renewed.

Aft deck, starboard side, 45 feet of rail renewed. Two plates and seven stanchions renewed. Port-side, six stanchions renewed. Bridge deck bulwark plates port & stand. with a number of stanchions renewed or repaired, guard rails fairied as required.

Sounding & air pipes. Fore peak renewed. Stokelid life sounding pipes with deck fittings renewed. Aft peak with deck fittings renewed.

S.S. "IRISH ELM"

No 4 O.B. Tank sounding pipes with deck fittings renewed.

Calles. No 8 length stand, side mandia, $1\frac{26}{32}$ ". A new length has been supplied to take the place of this length but the Owners have not yet received the certificate No. on new length 24026.

Several items on deck of a minor nature made good.
All steel work recrated internally & externally.

Special Reasons List.

H 14 S.S. renewed.

Indented plates 3' x 4' strakes below sheer & structure in way repaired.

P 12, 13. repaired.

Shell plate No 2 (H 2) 2nd strake below sheer (P.S.F) renewed.

Defective rivets in aft hold S.S. all cut out and renewed.

R.B. Green.