

REPORT of SURVEY for REPAIRS, &c.

Date of writing Report 11th June 1927 When handed in at Local Office 13th June 1927 Port of Glasgow
No. in Survey held at Glasgow Date, First Survey 14th Sept 1926 Last Survey 9th June 1927
Reg. Book. 69083 on the Wood, Iron or Steel TWIN SC "EMPRESS OF AUSTRALIA" (No. of Visits 60)

TONNAGE:— Built at Stettin By whom Vulcanwerke A.G. When 1914
GROSS 21841-21833 Owners Canadian Pacific Ry Co Owners' Address (if not already recorded in Appendix to Register Book)
UNDER DEK 14149-8184 Managers Canadian Pacific Steamships Ltd., Port belonging to London
NET 12292-12177

Surveyed Afloat or in Dry Dock? Both Name of Dock No. 3 from Dry Dock 4 Destined Voyage Canada via Southampton
WB=CellDBorDBa feet; uE&B feet; Fairfull beam 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. 6020 Port Glasgow

(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

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

REPAIRS, OR EXAMINATION AS PER RULE, FOR ALTERATIONS & S.S. No. 3.

ALTERATIONS:— Engines & Boilers etc removed for the fitting of new machinery, new engine seatings fitted, additional girders in double bottom tank in way of engine space fitted, new boiler shell fitted, pillars added in Boiler space all as per approved plans.

Vessel placed in dry dock openings in shell for old sea connection plated over & new opening cut & construction fitted in shell etc as found necessary.

"C" DECK:— (FLEX BRIDGE DECK) Deckhouse aft extended on Port & Starboard sides and fitted up as a new lounge.

"D" DECK:— (SHELTER DECK) Nos 1 & 2 lower decks fitted up for hospital, crew, 3rd class smoke room, lounge etc.

"E" DECK:— No. 1 lower Deck fitted up for crew etc.

SEE BACK OF PAGE 1 & PAGE 2.

SUMMARY OF DAMAGE REPAIRS:—	Shell Plates.	Frames.	R. Frames.	Floors.	Beams.	Str. Plates.	Dk. Plates.	Other Items:—
Renewed ...								
Removed and Faired or Repaired ...								
Faired or Repaired in place ...				4				

PRESENT CONDITION OF THE

Decks ... good	State if Tanks have been examined inside ... Yes	Dblg. Plates under Sounding Pipes ... Yes	Copper, or Y.M. of Wood Vessels ... (State if on Felt.)
Caulking of Decks ... "	State if Tanks now tested ... Yes	Engine Room Skylights ... Yes	When put on, Month ... Year ...
Coamings ... "	Bulkheads ... good	Coal Bunkers, Openings, Lids, &c. ... "	Boats ... good
Beams & Fastenings ... "	Ceiling ... "	Scuppers ... "	Masts, Yards &c. ... "
Outside Plating ... "	Cement or Asphalt (State which.) ... "	Cargo Hatchways ... "	Condition, how ascertained ... Examination
Breasthooks ... "	Rudder ... "	Hatches ... "	(State if wedges removed) ... Yes
Transoms ... "	Steering gear and its connections ... "	Planking of Wood Vessels ... "	Sails ... "
Frames ... "	Windlass ... "	Caulking ... ditto	Equipment letter ... "
Reverse Frames ... "	Have Pumps now been examined and found efficient? ... Yes	Treenails ... ditto	Anchors, No. of ... 3-1-1
Longitudinals ... "	Have Sluice Valves now been examined and found efficient? ... Yes	Breasthooks & Stems ... ditto	Cables (State if now ranged) ... Yes
Transverses ... "	Have Watertight Doors now been examined and found efficient? ... Yes	Transoms, Pointers, & Crutches ditto ...	" length 330 ft size 3 1/8
Floors ... good	Have Ventilators and their Coamings been examined and found efficient? ... Yes	Timbers of Frame & openings ditto ...	" Rule length 330 ft size 3 1/8
Keelsons ... "		Ditto ditto at other places ditto ...	Hawser & Warps ... sufficient
Stringers ... "		Stringers, Clamps & Shells ditto ...	Standing & Running Rigging ... good
Inner Bottom Plating ... "		Salting ... ditto	

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 now classed in the Register Book without fresh record of Survey," "to remain as classed and to have record of survey, 1,24," or "to remain as classed and to have record of survey, 1,24, and the notations of ss No. 1-24 and ptn24, &c."

This vessel is in an efficient condition & eligible in my opinion to remain as at present classed in the Register Book and to have the fresh record of survey 6-27 and the notation of s.s. No. 3-6-27, it is also submitted the vessel's name be deleted from the S.R. List.

Survey Fee (per Section 20) ... £ 25 : 0 : 0
Special Damage or Repair Fee (if any) ... £ 42 : 0 : 0
Travelling Expenses (if chargeable) ... £ : :
Second Surveyor's Fee (if any) ... £ : :
Fees applied for, 14 JUN 1927
Received by me, 17.8.1927
W.D. Pyle

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 14 JUN 1927

Character Assigned 100A1
with freeboards

CERTIFICATE WRITTEN 24.6.27

FRI. 24 JUN 1927

FRI. 29 JUL 1927

S.S. No. 3-6-27

6.27 + LMC 6.27

+ NE & B 6.27

Fitted for oil fuel 5.22 F.P. above 150°F

Glasgow.

Continuation of Report No. 46750 dated 9th June 1927. on the

STEEL TWIN SC "EMPRESS OF AUSTRALIA"

ALTERATIONS CONT^D:-

"F" DECK:- No. 142 twin decks fitted up for 3rd class accommodation & port-x-arranged for crew, accommodation aft-x-arranged for 3rd class passengers. Extra sidelight fitted through shell aft

5" DECK:- Nos 1 & 2 lower decks fitted up for 3rd class passengers, sitting nights in shell
opened up & extra nos fitted.

nos 3, 4 & 5 both decks insulated, insulation in Provision chambers aft renewed complete

HATCHES:- No 2 Hatch worked all round between "D" & "F" Decks

N^o 445 Hatch trunks extended from "E" to "F" Decks

SHELL:- Side openings in shell in way of No. 2 Hatch Port & St. sides between "80" Decks (7' deck & shell deck) plated in 4 extra frames fitted.

REMOVALS:- 4 deck plate & 6- $\frac{1}{2}$ keels on Starboard side of "C", "D", "E", "F" & "G" Decks in way of No. 2 Hold.
12 deck plate, 9- $\frac{1}{2}$ keels & 14 keels cropped on Starboard side of "H" Deck in way of No. 2 Hold, Starboard side of Hatch, girders & pillars, pipe tunnel & center line bulkhead in No. 2 Hold, a number of bulkhead (No. 160) plates & stiffens in way of No. 2 Hold & bars to lower deck all removed for shipment of boiler & replaced. 600 fuel tank bulkheads (No. 125 & 137) removed in way of center tank for shipment of boiler, 11 new bulkhead plates with double milled seams have been fitted in lieu of the original single milled seams which were electrically welded.

On completion of alterations all double bottom tanks, decks, bulkheads, tunnel & oil fuel tanks disturbed & tested & now satisfactory.

DAMAGE:- Cause not stated

On examination of C-2 double bottom tank internally found 4 floors on U-side slightly buckled, the box has been faired in place & S.P. stiffeners fitted to floor.

Still in way of above scanned with vessel was in dry dock & found satisfactory

5. SURVEY N°3:- (PLEASE SEE HONG KONG RPT N°5963 & S.L. LIST)

The vessel placed in dry dock, the outer surface of shell plating & mudder cleaned & examined, not satisfactory & recoated, the mudder removed, not satisfactory & replaced, the anchors & cables ranged & examined, chain locker examined, the Hold, lower decks, coal bunkers, Peaker, Machinery space, turnb, closed all steelwork cleaned & chipped as found necessary, the framing, beam, bulkheads, ribs, floor, keelson, C & B beams, tank top plating, ribs & the inner surface of shell plating examined & not satisfactory & recoated, the plating under the sidelifts examined, ceiling & lockers lifted renewed as necessary & relaid, the bilges cleaned & examined, Cappings of oil, sulphur, air & standing pipes renewed, renewed as necessary & refitted, all double bottom tanks, Fore & After Pk tank, Fresh Water tank, Deep Tank & sludge tanks tested to rule requirements & not satisfactory, all the tanks cleaned, examined internally, not satisfactory & recoated (except No. 1, 3 & 10 Double bottom tanks see Hong Kong Rpt. No. 5963) Oil fuel bunkers tested to rule requirements & not satisfactory, the bunkers cleaned, examined internally & not satisfactory, all decks, coamings, coaming, hats, ventilators, hatch, shifting beams, & deckbeams examined & not satisfactory, Hatch cleats, tarpaulins battens examined & found efficient, the Mast, spars, rigging (Rpt. attached hereto) ropes and general equipment examined & not in good condition, all accommodation & crew spaces examined, not satisfactory, mast ridges removed & replaced, the windlass, steering gear & its connections

SEE PAGE 3

L. J. P.

Particulars of x -total length of cable was placed a board.

When Anchors or Cables are supplied, the particulars are to be reported in the following form:—

ANCHORS.

Number of Certificate.	Anchors.*	WEIGHT, EX STOCK.			WEIGHT OF STOCK.			TEST, PER CERTIFICATE.			WEIGHT REQUIRED BY RULE.			Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	Cwts.	qrs.	lbs.	Cwts.	qrs.			
	1st Bower ..													* Patent made name of Patentee.		
	2nd "															
	3rd "															
	Collective Weight.															
	Stream															
	Kedge.....															

* When a bower anchor is supplied it must be clearly stated whether it is a 1st, 2nd, or 3rd bower.

CHAIN CABLES.

Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.		Length and size per Rule.		Description.	Makers of Cables.	When and where tested and Superintendent.
	Length.	Diam.	Status.	Breaking.	Supplied.	Per Rule.	Length.	Diam.			
	Fathoms.	Inch.	Tons.	Tons.	Owts. grs. lbs.	Owts. grs. lbs.	Fathoms.	Inch.			
X-80361	15	3/8	153 1/2	218 1/4	71-0-0	72-2-4 FOR 3 3/8 IN.	330	3 3/8	STUD LINK HINGLEY & SONS L ^{TD}		22/12/26, NETHERTON, GREEN
Iron Stre. m Chain						TOTAL					

* This is part of original cable 3³/₁₆" dia, tested at Petrolia 9/5/22, Lot No 75499.
The weight given above does not include joining & shackles. N.T.P.

W. F. P.

Glasgow.

Continuation of Report No. 46750 dated

9th June 1927.

on the

STEEL TWIN SC "EMPRESS OF AUSTRALIA"

S.S. N^o 3 CONT^d:- Examined & now in good condition, W.T. Don tried & found satisfactory, the pumps tried & found efficient, the air & sounding pipes, suction pipes, strums examined & now satisfactory, fuelwood verified, draughting plates under sounding pipes. It was not considered necessary to drill the shell plating at this survey.

WEAR & TEAR REPAIRS:-

RUDDER:- Rudder removed, 2 new lignum vitae bushes fitted, new pintles & bearing rings renewed, new brass bush fitted in thrust.

BILGE KEELS:- A number of ribs renewed in bilge keel on Port & Starboard sides.

CHAIN LOCKER:- New fore & aft channels fitted under beams in way of chain pipes with $\frac{1}{2}$ round moulding on bottom flange.

PIPES:- A number of pipes throughout the vessel renewed.

VENTS:- A number of ventilators renewed.

A large quantity of ventilator trunking renewed.

DECKS:- Portion of wood deck on Port & St-boards of "B" Deck aft renewed.

HATCHES:- A number of hatch covers renewed.

FRAMING:- 1 frame between "E" & "F" Decks on Port side aft fractured on inner flange of channel now fitted with tack bar & face plate.

CABLES:- 1 length of cable found with large number of slack strands & some missing, this length of cable sent to P. W. H. & Co., repaired & re-tested.

Mark on re-tested length of cable verified with certificate & found satisfactory full particulars given on the back of page 1 of this report.

S.R. LIST:- Special Survey N^o 3 has been completed at this time, it is submitted the vessel's name be deleted from the S.R. List.

DAMAGE:- stated to have been sustained by a fire on Port side of "H" Deck in N^o 2 Hold on February 7th 1926, whilst vessel was lying in Tait's Dry Dock.

(PLEASE SEE HONG KONG RPT N^o 6020)

The Bureau do not desire to fit the deck covering referred to in the above report, deck plating etc satisfactory.

TONNAGES:- The vessel has been re-measured for tonnage, the following are the particulars given by the B. O. T.

GROSS:- 21833.22

UNDER DECK:- 8183.99

NETT:- 12177.44

ADDITIONAL STIFFENING:- On testing After Plate under pressure, it was found the deck plating of "G" Deck unfair, on examination of After Plate internally it was arranged to fit an additional tie bar runner under the beams on Port & St-boards of "G" Deck with 3 channel pillars from beams to floors each side of centre.

SEE PAGE 4

W.T.P.
R

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Lloyd's Register
Foundation

W1086-0158 3/4

Glasgow.

Continuation of Report No. 46750 dated 9th June 1927. on theSTEEL TWIN SC "EMPRESS OF AUSTRALIA"

The following approved plans are enclosed herewith:-

Engine Seating.

Bike Seating.

Additional girders in double bottom tank in way of Engine space.

Alteration to pillars in Bike space.

REGISTER BOOK:- Full particulars of insulated spaces for insertion in Register Book as given in Machinery report.

A.T. Pyle