

Rpt. 9

Date of writing report 26.11.59
Survey held at PORT GLASGOW

Received London 15 DEC 1959

No. of visits 5

Port GREENOCK.

No. 26534

First date 9.11.59

Last date 13.11.59

REPORT OF PERIODICAL SURVEYS & REPAIRS OF MACHINERY

No. in R.B. 04838 Name S.S. TUG BRIGADIER. Gross tons 268 Date of build 1942-11
 Owners STEEL & BENNIE LTD. Managers Port of Registry GLASGOW.
 Engines made 1942 By SWAN, HUNTER & WIGHAM RICHARDSON. Type STEAM RECIPROCATING.
 No. of Main Engines 1 No. of Screws 1
 No. of Main Boilers 1 S.B. W.P. 200LB
 No. of Aux./Donkey Boilers - W.P. -
 Surveyed Afloat ~~24/11/59~~ ON SLP.
 Nature of Survey COMMENCEMENT E.S.
 Was Damage Report issued? - Int. Cert.? YES
 Last Report (For Head Office only)

Records of Survey & Special Notations as per Register Book

Hull	Machinery
B.S.* TUG	M.B.S.* 10.55
DOCKING 3.59	B.B. M.B.L.R.S. 4.59
S.S. 10.55	T.S. OG 9.57
	LON. LTR 24/7/59
	STEAM PIPES 3.58
	OF 10.55

The condition of any of the following items is to be described as "good" only when the part has been examined, found or placed in good condition, and is considered to be acceptable until the due date of the next Periodical Examination. Where it is considered that re-examination or repairs should be effected before the due date of the next Periodical Examination a distinguishing mark thus † should be inserted against the item and the circumstances and action recommended described fully under "defects and repairs". At part or complete Special Surveys those items which are not applicable to the ship should be cancelled with a black line; this need not be done when the machinery is on a continuous survey basis. When any part has been subjected to pressure test this should be stated. Engine parts when referred to by numbers should be counted from forward.

DOCKING Propellers GOOD Wear Down of Stern Bushes NOT TAKEN Oil Glands Sea Connections GOOD
 Fastenings GOOD Has Screwshaft Tubeshaft been drawn? NO Date of Examination Has Shaft been changed?
 Has Shaft now fitted been previously used? Has Shaft now examined/fitted a continuous liner? Approved oil gland?

MAIN ENGINES (Recip. Steam)

1 Cyls., Covers, Pistons & Rods H.P., I.P. & L.P. GOOD
 2 Valves & Gears H.P., I.P. & L.P. GOOD
 3 Connecting Rods, Top Ends & Guides Centre
 4 Crankpins & Bearings Centre
 5 Journals & Bearings

MAIN ENGINE DRIVEN AIR COMPRESSORS

6 Cyls., Covers, Pistons & Rods
 7 Connecting Rods & Top Ends
 8 Crankpins & Bearings
 9 Journals & Bearings
 10 Coolers & Safety Devices

MAIN ENGINE DRIVEN SCAVENGE PUMPS

11 Cyls., Covers, Pistons & Rods
 12 Connecting Rods & Top Ends
 13 Crankpins & Bearings
 14 Journals & Bearings
 15 Levers

16 SCAVENGE BLOWERS
 17 SUPERCHARGERS

MAIN TURBINES

18 Casings, Rotors, Blading, Bearings & Thrusts

19 EXHAUST STEAM TURBINES (WITH REOP. ENGINES)

20 STEAM COMPRESSORS

21 COUPLERS & HYDRAULIC COUPLINGS

22 REDUCTION GEARING

23 THRUST BLOCKS, SHAFTS & BEARINGS

24 INTERMEDIATE SHAFTS & BEARINGS

25 HOLDING DOWN BOLTS & CHOCKS

26 CONDENSERS (MAIN & AUX.)

27 STEAM RE-HEATERS

28 DE-SUPERHEATERS

29 STOP & MANOEUVRING VALVES GOOD
 30 MAIN ENGINE DRIVEN PUMPS 2 FEED, 2 BILGE, 1 AIR. GOOD.

31 CRANKCASE DOORS & EXPLOSION RELIEF DEVICES

Have Main Engines been tested working and manoeuvring?

OPINION OF MACHINERY AND RECOMMENDATIONS The machinery of this ship as now seen is in efficient order and eligible in my opinion to remain as now classed with fresh record of E.S. 11.59 when the survey has been completed.

Date of Committee GLASGOW 15 DEC 1959

Decision Referred for comp. ES.

40m, 4, 57. T. (MADE AND PRINTED IN ENGLAND.)

Noted for Header

Engineer Surveyor to Lloyd's Register of Shipping

Lloyd's Register Foundation

002522-002528-0184

If certificate is required state where to be sent.

32 Essential Independent Pumps (Identify by position) MAIN S.W. CIRC. PUMP, O.F. TRANSFER PUMP. GOOD.
33 Bilge, Ballast & Oil Fuel Suction Lines, Fittings & Controls.
34 Have the remaining Piping Arrangements & Fittings in the machinery space been examined as considered necessary?
35 Fresh Water Coolers. 36 Lub. Oil Coolers 37 Heaters (state service).
38 Independent Air Compressors, Coolers & Safety Devices.
39 Air Receivers & Safety devices - Main 40 Auxiliary.
41 Oil Fuel Tanks (Not forming part of hull structure).
42 Evaporators. 43 Have Evaporator Safety Valves been tested under steam?
44 Steering Machinery. GOOD 45 Windlass. GOOD. 46 Fire Extinguishing Arrangements.

AUXILIARY ENGINES (Identify by position)

PROPULSION		ELECTRICAL EQUIPMENT	
PORT	STARBOARD		AUXILIARY EQUIPMENT
a Generators			l Generators & Governors
b Exciters			m Motors
c Air Coolers			n Switchboards & Fittings
d Motors			o Circuit Breakers
e Air Coolers			p Cables
f Control Gear, Cables, etc.			q Insulation Resistance
g Insulation Resistance			r Steering Gear Generators and Motors
h Insulating Oil Test			s Navigation Light Indicators
i Overspeed Governors			
j Magnetic Couplings			
k Air Gap			

BOILERS OPENED UP & EXAMINED (Identify by position and state latest date of internal examination of each boiler)

MAIN AUXILIARY, DONKEY or PRESS.

Superheaters

Safety Valves

Mountings, Doors & Fastenings

Safety Valves Adjusted to { Sat.
Spt.

Boiler Securing Arrangements

Main Economisers Exhaust Gas Heated Economisers.

Steam Heated Steam Generators Steam Generator Safety Valves Adjusted to

Were Oil Burning System & Remote Controls examined working in accordance with Rules? Forced Circulating Pumps.

Have Saturated Steam Pipes in cylindrical boiler smoke boxes been examined as required by Rules? Funnel

EXAMINATION & TESTING OF STEAM PIPES (State material)

Main Auxiliary (over 3 in. bore)

Were Copper Pipes annealed? Have Saturated Pipes in cylindrical boiler smoke boxes been tested?

PARTICULARS OF DEFECTS & REPAIRS, ETC. (Damage repairs should be detailed separate from wear and tear repairs; state what action has been taken regarding items which are subjects of class)

NOW DONE . COMMENCEMENT OF ENGINE SPECIAL SURVEY.

The foregoing items examined for commencement of E.S. The Owners Representative states that it is proposed to complete the survey at the next dry-docking in about 6 months time.

WEAR & TEAR REPAIRS.

Main S.W. circulating pump impeller shaft & bushes renewed.
Main engine attached feed pump runs lightly skimmed and neck bushes renewed.
Main condenser overboard discharge valve (fabricated steel) found perforated in lower portion of chest, now repaired with welded steel patch.

NOTE :- SCREWSHAFT SURVEY. The attention of Owners Superintendent was drawn to the fact that the screwsaft survey fell due in September. It was, however, stated that this was carried out at Irvine in April 1959 (TS. Lt due see London entry 24.7.59)

TS. 09. 4.15.59 cannot be overruled. The record of 10.4.59 the screwsaft was not maintained for see communication. Report of the fact that in the Glasgow was past E.S. 04.12.59. 04.12.59.

Survey fees COMMES. £10.
Damage fee
Expenses...
Date when A/c rendered 28th Nov. 1959.