

28 DEC 1959

Rpt. 9

Date of writing report 19.11.59.

Received London

Port GLASGOW.

No. 90811.

Survey held at Grangemouth.

No. of visits 2

First date 30.10.59.

Last date 4.11.59.

REPORT OF PERIODICAL SURVEYS & REPAIRS OF MACHINERY

No. in R.B. 04581 Name M.V. "BORTHWICK"

Gross tons 900 Date of build 4 - 1941

Owners Geo. Gibson & Co. Ltd., Managers -

Port of Registry GLASGOW.

Engines made 1941 By British Auxiliaries Ltd.,

Type Oil Eng. 2 SA 5 cyl. 340x 570 m/m.

No. of Main Engines 1 No. of Screws 1

Records of Survey & Special Notations as per Register Book

No. of Main Boilers - W.P. -

No. of Aux./Donkey Boilers - W.P. -

Surveyed Afloat or in Dry Dock Both

Nature of Survey Docking TS(OG) Pt. CS

Was Damage Report issued? No Int. Cert.? Yes

Last Report (For Head Office only)

| Hull | | Machinery | |
|---------|------|---------------|------|
| + 100A1 | | + LMC CS 8,56 | |
| SS | 8,56 | TS(OG) | 8,56 |
| Docking | 8,58 | | |
| N.S. | | Oil Engine | |

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.

Yes

Has a Survey also been held on Ship? If so, is the Report sent now, or when will it be sent?

DOCKING Propellers Good Wear Down of Stern Bushes Remetalled Oil Glands Good Sea Connections Good
Fastenings Good Has Screwshaft Tube/shaft been drawn? Yes Date of Examination 4.11.59. Has Shaft been changed? No
Has Shaft now fitted been previously used? - Has Shaft now examined/fitted a continuous liner? No Approved oil gland? Yes

MAIN ENGINES (Recip. Steam or I.C.) PORT

STARBOARD

- 1 Cyls., Covers, Pistons & Rods
- 2 Valves & Gears
- 3 Connecting Rods, Top Ends & Guides Side Centre
- 4 Crankpins & Bearings Side 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

SCAVENGE BLOWERS

SUPERCHARGERS

MAIN TURBINES

- 16 Casings, Rotors, Blading, Bearings & Thrusts

EXHAUST STEAM TURBINES (WITH RECIP. ENGINES)

STEAM COMPRESSORS

CLUTCHES & HYDRAULIC COUPLINGS

REDUCTION GEARING

THRUST BLOCKS, SHAFTS & BEARINGS

INTERMEDIATE SHAFTS & BEARINGS

HOLDING DOWN BOLTS & CHOCKS

CONDENSERS (MAIN & AUX.)

STEAM RE-HEATERS

DE-SUPERHEATERS

STOP & MANOEUVRING VALVES

MAIN ENGINE DRIVEN PUMPS

CRANKCASE DOORS & EXPLOSION RELIEF DEVICES

Have Main Engines been tested working and manoeuvring?

OPINION OF MACHINERY AND RECOMMENDATIONS

The machinery of this vessel so far as now seen is in

good condition and eligible in my opinion to remain as now classed with fresh records of TS(OG) 11,59

now, and CS with date when the survey has been completed.

Date of Commitment

Decision

As now 15.09.11.59

40m,3,58 T. (MADE AND PRINTED IN ENGLAND.)

Noted for Header

Engineer Surveyor to Lloyd's Register of Shipping

(R.M. NICHOLSON)

Lloyd's Register

Foundation

013033-013041-0219

If certificate is required state where to be sent

32 Essential Independent Pumps (*Identify by position*)

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 M.E. - Good 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 45 Windlass 46 Fire Extinguishing Arrangements

| PROPULSION | | PORT | | STARBOARD | | ELECTRICAL EQUIPMENT | | 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..... | | | | | | | | |

| MAIN | | AUXILIARY, DONKEY or PRESS |
|--|--|--------------------------------|
| Superheaters | | |
| Safety Valves | | |
| Mountings, Doors & Fastenings | | |
| Safety Valves Adjusted to | <div> <div>Sat.</div> <div>Spt.</div> </div> | |
| 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 |

| | |
|----------------------------------|--|
| Main..... | Auxiliary (over 3 in. bore)..... |
| Were Copper Pipes annealed?..... | Have Saturated Pipes in cylindrical boiler smoke boxes been tested?..... |

| | | | | |
|-------------|---------|-----|----|----|
| Survey fees | TS(OG) | £5. | -. | -. |
| | Part CS | £3. | -. | -. |

Damage fee

Expenses... .. £1. -. -.

Date when A/c rendered.

£1. -.

22 DEC 1959

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