

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 10 AUG 1955

Writing Report 30.3.55 19 When handed in at Local Office 19.4.55 19 Port of London

Survey held at Newbury, Berks. Date, First Survey 11.11.54 Last Survey 24.3.55 19

Book Sheifa. (Number of Visits 16)

on the Bowling. By whom built Scott & Son Ltd. Yard No. 404 Tons { Gross 1955 Net 1955

Lines made at Newbury, Berks. By whom made Scott & Son Ltd. Engine No. 2901 When made 1955.3

Boilers made at ✓ By whom made ✓ Boiler No. ✓ When made ✓

Horse Power 1100 I.H.P. Owners Sudan Government Service Port belonging to Port Sudan

Horse Power as per Rule 198. Is Refrigerating Machinery fitted for cargo purposes ✓ Is Electric Light fitted ✓

for which vessel is intended Towing services

DES, &c.—Description of Engines 3 Cylinder triple expansion steam. Revs. per minute 125.

No. of Cylinders 3 Length of Stroke 30" No. of Cranks 3

shaft, dia. of journals 8.57" as per Rule ✓ as fitted 9 3/8" Crank pin dia. 9 3/8" Mid. length breadth 1'5 1/4" Thickness parallel to axis 6"

as fitted 9 3/8" Crank webs 6" Mid. length thickness 6" shrunk Thickness around eye-hole 3 15/16"

Intermediate Shafts, diameter as per Rule ✓ as fitted ✓ Thrust shaft, diameter at collars as per Rule ✓ as fitted ✓

Shafts, diameter as per Rule ✓ as fitted ✓ Screw Shaft, diameter as per Rule ✓ as fitted ✓ Is the { tube screw } shaft fitted with a continuous liner { ✓ }

Liners, thickness in way of bushes as per Rule ✓ as fitted ✓ Thickness between bushes as per Rule ✓ as fitted ✓ Is the after end of the liner made watertight in the ✓

er boss ✓ If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner ✓

liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive ✓

liners are fitted, is the shaft lapped or protected between the liners. ✓ Is an approved Oil Gland or other appliance fitted at the after end of the tube ✓

If so, state type ✓ Length of Bearing in Stern Bush next to and supporting propeller ✓

er, dia. ✓ Pitch ✓ No. of Blades ✓ Material ✓ whether Movable ✓ Total Developed Surface ✓ sq. feet 57/50

Pumps worked from the Main Engines, No. 2 Diameter 3" Stroke 15" Can one be overhauled while the other is at work Yes.

Pumps worked from the Main Engines, No. 2 Diameter 3" Stroke 15" Can one be overhauled while the other is at work Yes.

No. and size ✓ Pumps connected to the Main Bilge Line { No. and size ✓ How driven ✓ }

How driven ✓ Lubricating Oil Pumps, including Spare Pump, No. and size ✓

Pumps, No. and size ✓ independent means arranged for circulating water through the Oil Cooler ✓ Suctions, connected both to Main Bilge Pumps and Auxiliary

Pumps:—In Engine and Boiler Room ✓ In Holds, &c. ✓

Water Circulating Pump Direct Bilge Suctions, No. and size ✓ Independent Power Pump Direct Suctions to the Engine and/or Boiler Room Bilges, ✓

size ✓ Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes ✓

Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges ✓

Sea Connections fitted direct on the skin of the ship ✓ Are they fitted with Valves or Cocks ✓

fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates ✓ Are the Overboard Discharges above or below the deep water line ✓

each fitted with a Discharge Valve always accessible on the plating of the vessel ✓ Are the Blow Off Cocks fitted with a spigot and brass covering plate ✓

Pipes pass through the bunkers ✓ How are they protected ✓

Pipes pass through the deep tanks ✓ Have they been tested as per Rule ✓

Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times ✓

Arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one ✓

ment to another ✓ Is the Shaft Tunnel watertight ✓ Is it fitted with a watertight door ✓ worked from ✓

BOILERS, &c.—(Letter for record ✓) Total Heating Surface of Boilers ✓

Boilers are fitted with Forced Draft ✓ Which Boilers are fitted with Superheaters ✓

Description of Boilers ✓ Working Pressure ✓

REPORT ON MAIN BOILERS NOW FORWARDED? No. Not made at Newbury.

DONKEY BOILER FITTED? ✓ If so, is a report now forwarded? ✓

Donkey boiler be used for other than domestic purposes ✓

S. Are approved plans forwarded herewith for Shafting Yes. Main Boilers ✓ Auxiliary Boilers ✓ Donkey Boilers ✓

(If not state date of approval)

General Pumping Arrangements ✓ Oil fuel Burning Piping Arrangements ✓

SPARE GEAR.

Spare gear required by the Rules been supplied Yes.

Principal additional spare gear supplied 1 set main bearing balls, M.E. pump valves, 6 condenser tubes, ferrules up, 1 set metallic packing for piston & valve rods, various studs & nuts.

the foregoing is a correct description. ✓

Manufacturer. ✓

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Dates of Survey while building
During progress of work in shops - - { 1954 11/11, 19/11, 26/11, 2/12, 9/12, 23/12.
1955 6/1, 13/1, 20/1, 27/1, 1/2, 10/2, 24/2, 1/3, 10/3, 24/3.
During erection on board vessel - - - {
Total No. of visits 16.

Dates of Examination of principal parts - Cylinders I.P. 1/3/55 L.P. 6/1/55 Slides Various date + 10/3/55 Covers as cylinders.
Pistons 10/3/55 Piston Rods Various date + 10/3/55 Connecting rods Various date + 10/3/55
Crank shaft 23/2/54 + 13/1/55 Thrust shaft ✓ Intermediate shafts ✓
Tube shaft ✓ Screw shaft ✓ Propeller ✓
Stern tube ✓ Engine and boiler seatings ✓ Engines holding down bolts ✓
Completion of fitting sea connections ✓
Completion of pumping arrangements ✓ Boilers fixed ✓ Engines tried under steam ✓
Main boiler safety valves adjusted ✓ Thickness of adjusting washers ✓
Crank shaft material O.H. steel. Identification Mark 7409 S.H. 10.11.53 Thrust shaft material ✓ Identification Mark ✓
Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark ✓
Screw shaft, material ✓ Identification Mark ✓ Steam Pipes, material ✓ Test pressure ✓ Date of Test ✓
Is an installation fitted for burning oil fuel ✓ Is the flash point of the oil to be used over 150° F. ✓
Have the requirements of the Rules for the use of oil as fuel been complied with ✓
Is the vessel (not being an oil tanker) fitted for carrying oil as cargo ✓ If so, have the requirements of the Rules been complied with ✓
If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with ✓
Is this machinery duplicate of a previous case. No. If so, state name of vessel Exp. No. 2746, 2755, 2758/9, + 2972.

General Remarks (State quality of workmanship, opinions as to class, &c. This engine has been built under Special Survey in accordance with the requirements of the Rules and the approved Plans. The materials and the workmanship are good.
The engine has been despatched to Messrs. Scott & Son Ltd., Bombay for installation in yard No. 404.

The amount of Entry Fee ... £ 30 : - :
Special ... £ : :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ 6 : 15 :
When applied for, 25 APR 1955
When received, 19

W.A. Rankin.
Engineer Surveyor to Lloyd's Register of Shipping

GLASGOW 9 AUG 1955
Date

Committee's Minute
STE ACCOMPANYING MACHINERY REPORT