

REPORT ON MACHINERY

No. 36913

Received at London Office 25 MAR 1926

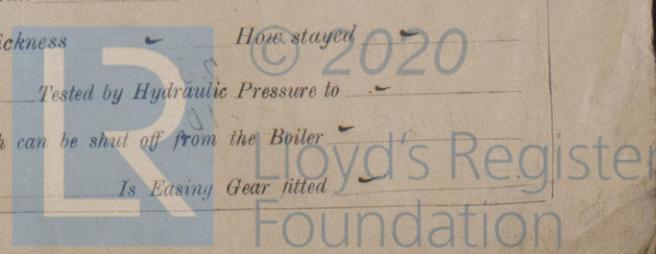
Date of writing Report 10 When handed in at Local Office 24/3/1926 Port of Hull
 No. in Survey held at Hull Date, First Survey Dec 24/25 Last Survey Mar 11 1926
 Reg. Book. on the steam trawler "NEPTUNIA" (Number of Visits 26)
 Master Built at Selby By whom built Cochrane & Sons Ltd. (No 992) Tons Gross 613 Net 344
 Engines made at Hull By whom made Charles D. Holmes & Co. Ltd. (No 1297) when made 1926
 Boilers made at Hull By whom made -do- when made 1926
 Registered Horse Power Owners Societe Havraise de Peche Port belonging to Hare
 Nom. Horse Power as per Section 28 128 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 15-25-42 Length of Stroke 27 Revs. per minute 113 Dia. of Screw shaft as per rule 8.415 as fitted 8 3/8 Material of screw shaft Steel
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube yes Is the after end of the liner made water tight in the propeller boss yes If the liner is in more than one length are the joints burned yes If the 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 yes If two liners are fitted, is the shaft lapped or protected between the liners Length of stern bush 40"
 Dia. of Tunnel shaft as per rule 7.54 as fitted Dia. of Crank shaft journals as per rule 7.92 as fitted 8 1/4 Dia. of Crank pin 8 1/4 Size of Crank webs 15 1/2 x 5 1/4 Dia. of thrust shaft under collars 8 1/4 Dia. of screw 10-6 Pitch of Screw 11-0 No. of Blades 4 State whether moveable no Total surface 39 sq ft
 No. of Feed pumps 2 Diameter of ditto 2 1/2 Stroke 16 Can one be overhauled while the other is at work yes
 No. of Bilge pumps 2 Diameter of ditto 2 1/2 Stroke 16 Can one be overhauled while the other is at work yes
 No. of Donkey Engines 2 1/2 injecta Sizes of Pumps 6x6x6 & 6x4 1/2 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room Two 2 1/4 In Holds, &c. One 2" from store room; one 2" from
 No. of Bilge Injections 1 sizes 4 Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size yes, 3"
 Are all the bilge suction pipes fitted with roses mud Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible none
 Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the Discharge Pipes above or below the deep water line above
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel yes Are the Blow Off Cocks fitted with a spigot and brass covering plate yes
 What pipes are carried through the bunkers forward suction How are they protected wood casing
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes
 Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Mannesmannrohren-werke, Hückingen
 Total Heating Surface of Boilers 2315 Is Forced Draft fitted no No. and Description of Boilers One (S.E.) main
 Working Pressure 190 lb Tested by hydraulic pressure to 335 lb. Date of test 11-2-26. No. of Certificate 3587
 Can each boiler be worked separately Area of fire grate in each boiler 63 sq ft No. and Description of Safety Valves to each boiler 2 spring loaded Area of each valve 7.070 Pressure to which they are adjusted 190 lb. Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 9" INT. Mean dia. of boilers 15-3 1/2 Length 11-0 Material of shell plates S
 Thickness 1 1/4 Range of tensile strength 30/34 the shell plates welded or flanged no Descrip. of riveting: cir. seams D.R. long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 1/4 Pitch of rivets 8 3/16 Lap of plates or width of butt straps 18 1/4
 Per centages of strength of longitudinal joint rivets 86.1 plate 84.73 Working pressure of shell by rules 191 3 cf. Size of manhole in shell 16x12
 Size of compensating ring 34x27x1 1/4 No. and Description of Furnaces in each boiler 3 Corrugated Material S Outside diameter 44 1/8
 Length of plain part top 19 bottom 32 Thickness of plates crown 19 bottom 32 Description of longitudinal joint Welded No. of strengthening rings 15
 Working pressure of furnace by the rules 192 Combustion chamber plates: Material S Thickness: Sides 23/32 Back 11/16 Top 21/32 Bottom 23/32
 Pitch of stays to ditto: Sides 10 1/2 x 8 Back 9 3/4 x 8 1/2 Top 9 x 8 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 197
 Material of stays S Area at smallest part 1 3/4 dia Area supported by each stay 82.80 Working pressure by rules 218 End plates in steam space: Material S Thickness 1 3/32 Pitch of stays 18 x 18 How are stays secured D.N.+W. Working pressure by rules 191 Material of stays S
 Area at smallest part 3" dia. Area supported by each stay 324.0 Working pressure by rules 207 Material of Front plates at bottom S
 Thickness 27/32 Material of Lower back plate S Thickness 13/16 Greatest pitch of stays 14 1/2 x 8 1/2 Working pressure of plate by rules 190 lb
 Diameter of tubes 3 1/2 Pitch of tubes 4 2/8 x 4 3/4 Material of tube plates S Thickness: Front 27/32 Back 13/16 Mean pitch of stays 12.14
 Pitch across wide water spaces 14 1/2 Working pressures by rules 208 lb. Girders to Chamber tops: Material S Depth and thickness of girder at centre 9 x 1 3/4 Length as per rule 34 Distance apart 9 Number and pitch of stays in each 3 @ 8"
 Working pressure by rules 211. Steam dome: description of joint to shell % of strength of joint

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
 Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

W529-0070



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— 2 top end bolts & nuts, 2 bottom end bolts & nuts, 2 main bearing bolts & nuts, 1 set coupling bolts. 1 set of air, feed & bilge pump valves, one safety valve spring, 1 spare main check valve, 1 donkey check valve, 3 condenser tubes, 12 condenser ferrules, 1 set connecting rod top & bottom end brasses. 1 set piston rings & springs. One set piston valve rings & springs for HP & MP. One set of escape valve spring.

The foregoing is a correct description,

For CHARLES D. HOLMES & Co. LTD

J. Cooper

Manufacturer.

Dates of Survey while building: During progress of work in shops -- 1925: - Dec 24, 29. 1926: - Jan 1, 5, 7, 8, 12, 15, 22, 26, 27, 28. Feb 3, 9, 10, 11. During erection on board vessel -- 12, 16, 17, 20, 23, 26. Mar 2, 5, 6, 11. Total No. of visits 26

Is the approved plan of main boiler forwarded herewith *yes*

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Dates of Examination of principal parts—Cylinders 27-1-26 Slides 3-2-26 Covers 27-1-26 Pistons 3-2-26 Rods 10-2-26 Connecting rods 10-2-26 Crank shaft 28-1-26 Thrust shaft 28-1-26 Tunnel shafts ✓ Screw shaft 12-1-26 Propeller 12-1-26 Stern tube 12-1-26 Steam pipes tested 2-3-26 Engine and boiler seatings 12-1-26 Engines holding down bolts 23-2-26 Completion of pumping arrangements 11-3-26 Boilers fixed 23-2-26 Engines tried under steam 11-3-26 Completion of fitting sea connections 12-1-26 Stern tube 12-1-26 Screw shaft and propeller 12-1-26 Main boiler safety valves adjusted 6-3-26 Thickness of adjusting washers 3/8 F. & A.

Material of Crank shaft *Steel* Identification Mark on Do. *209 P.F.* Material of Thrust shaft *Steel* Identification Mark on Do. *209 P.F.*

Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts *Steel* Identification Marks on Do. *209 P.F.*

Material of Steam Pipes *S.D. Copper, 4 1/2 dia. 5 SWG.* ✓ Test pressure *400 lb per sq in*

Is an installation fitted for burning oil fuel *no* ✓ Is the flash point of the oil to be used over 150°F. ✓

Have the requirements of Section 49 of the Rules been complied with ✓

Is this machinery duplicate of a previous case *no* ✓ If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c. *The engines & boiler of this vessel have been built under special survey & in accordance with the approved plans & the Rules of this Society. The materials & workmanship are good. The machinery has been satisfactorily fitted on board, tried under working conditions, & found good. The steam & feed pipes have been tested by hydraulic pressure to Rule requirements. The safety valves have been adjusted under steam & tested for accumulation. The machinery is eligible in my opinion to have the record + LMC 3, 26; C.L. in the Register Book.*

It is submitted that this vessel is eligible for THE RECORD + LMC 3. 26. CL.

P. Fitzgerald
26/3/26
Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 3 :
Special ... £ 32 :
Donkey Boiler Fee ... £ :
Travelling Expenses (if any) £ :

When applied for.

9/3/1926

When received.

26/3/1926

P. Fitzgerald

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUES. 30 MAR 1926

Assigned

+ LMC 3, 26

CERTIFICATE WRITTEN.



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