

REPORT ON MACHINERY.

No. 36701

Received at London Office 20 JAN 1926

Date of writing Report 15-1-26 When handed in at Local Office 15/1/26 Port of Hull

No. in Survey held at Hull Date, First Survey 3-9-25 Last Survey 5-1-19-26
Reg. Book. on the Steam Trawler "DAIRYCOATES" (Number of Voids 23) Gross Tonnage 350 Net 141

Master Built at Selby By whom built Cochrane & Sons Ltd (No. 988) When built 1926.

Engines made at Hull By whom made C.D. Holmes & Co. Ltd. No. 1291. when made 1926.

Boilers made at Hull By whom made C.D. Holmes & Co. Ltd. No. 1291 when made 1926

Registered Horse Power Owners. City Steam Fishing Co. Ltd. Port belonging to Hull

Nom. Horse Power as per Section 28 96.95 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 13-23-37 Length of Stroke 26 Revs. per minute. Dia. of Screw shaft as per rule 7.7 Material of screw shaft as fitted 8.4 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. If two liners are fitted, is the shaft lapped or protected between the liners

Dia. of Tunnel shaft as per rule 6.89 Dia. of Crank shaft journals as per rule 7.24 Dia. of Crank pin 7.2 Size of Crank webs 14.4 x 4.8 Dia. of thrust shaft under collars 7.2 Dia. of screw 9-9 Pitch of Screw 11-0 No. of Blades 4 State whether moveable no Total surface 34.9

No. of Feed pumps one Diameter of ditto 2.5 Stroke 14.3 Can one be overhauled while the other is at work

No. of Bilge pumps one Diameter of ditto 2.5 Stroke 14.3 Can one be overhauled while the other is at work

No. of Donkey Engines one Sizes of Pumps 6 x 4.4 x 6 + 1 ejector No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room 2 @ 2" + 1-3" ejector In Holds, &c. 1 @ 2" in each compartment

No. of Bilge Injections 1 sizes 3.2 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 Are the sluices on Engine room bulkheads always accessible.

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 Phoenix Act. Hoerder Verein.

Total Heating Surface of Boilers 164.9 sq ft Is Forced Draft fitted no No. and Description of Boilers one single ended 15B.

Working Pressure 200 Tested by hydraulic pressure to 350 lb. Date of test 24-11-25 No. of Certificate 3578.

Can each boiler be worked separately Area of fire grate in each boiler 49.2 sq ft No. and Description of Safety Valves to each boiler 2 spring loaded Area of each valve 4.9 sq ft Pressure to which they are adjusted 200 lb. Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork alt 7" Mean dia. of boilers 11.0 Length 10-8 Material of shell plates S

Thickness 1.32 Range of tensile strength 28/32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams DR. long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1.32 Pitch of rivets 8.9/16 Lap of plates or width of butt straps 18.13/16

Per centages of strength of longitudinal joint rivets 90.8 Working pressure of shell by rules 201 Size of manhole in shell 16 x 12

Size of compensating ring 34 x 27 x 1.32 No. and Description of Furnaces in each boiler 3 plain Material S Outside diameter 41

Length of plain part top 7.6 bottom 6.9 Thickness of plates crown 1.3 bottom 1.6 Description of longitudinal joint welded No. of strengthening rings

Working pressure of furnace by the rules 219 Combustion chamber plates: Material S Thickness: Sides 3/4 Back 23/32 Top 3/4 Bottom 3/4

Pitch of stays to ditto: Sides 9 x 8 3/4 Back 9 x 8 1/2 Top 9 x 8 3/4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 230

Material of stays S Area at smallest part 2.07 Area supported by each stay 78.3/4 Working pressure by rules 230 End plates in steam space:

Material S Thickness 1.3/16 Pitch of stays 18 How are stays secured DN4W Working pressure by rules 220 Material of stays S

Area at smallest part 7.50 Area supported by each stay 32.4 Working pressure by rules 275 Material of Front plates at bottom S

Thickness 1.5/16 Material of Lower back plate S Thickness 2.9/32 Greatest pitch of stays 14 x 8 3/4 Working pressure of plate by rules 228

Diameter of tubes 3.2 Pitch of tubes 4.8 Material of tube plates S Thickness: Front 1.5/16 Back 7/8 Mean pitch of stays 9.3/4

Pitch across wide water spaces 13.3/4 Working pressures by rules 212 Girders to Chamber tops: Material S Depth and thickness of girder at centre 9.2/10 x 13/4 Length as per rule 36.3/16 Distance apart 9 Number and pitch of stays in each 3 @ 8 3/4

Working pressure by rules 210 Steam dome: description of joint to shell % of strength of joint

Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

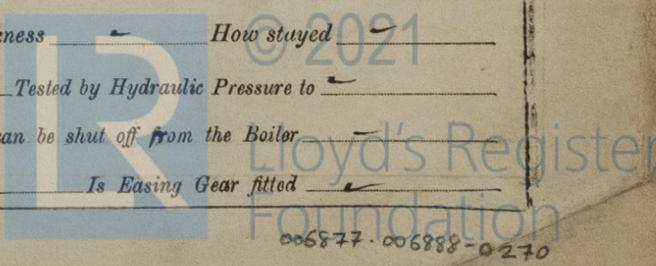
SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

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

If not, state whether, and when, one will be sent

In a Report also sent on the Hull of the ship



IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

Yes

SPARE GEAR. State the articles supplied:—

Two top end bolts & nuts. 2 bottom end bolts & nuts. 2 main bearing bolts & nuts. Set of coupling bolts & nuts. Valves for air, feed & bilge pumps. Main & donkey check valves. Safety valve spring. Centrifugal pump impeller & spindle. Valves for donkey pump.

The foregoing is a correct description,

By CHARLES D. HOLMES & Co. LTD

Harold & Sheardown.

Manufacturer.

Dates of Survey while building: During progress of work in shops -- 1925: - Sep 3, 8, 15, 18, 22, 29 Oct 8, 9, 13, 15, 21. Nov 2, 9, 12, 17, 19, 24. During erection on board vessel --- Dec 10, 21, 22, 29 31. 1926: Jan 5. Total No. of visits 23

Is the approved plan of main boiler forwarded herewith yes. " " " donkey " " "

Dates of Examination of principal parts - Cylinders 8-10-25 Slides 9-11-25 Covers 8-10-25. Pistons 9-11-25 Rods 9-11-25 Connecting rods 9-11-25 Crank shaft 2-11-25 Thrust shaft 2-11-25 Tunnel shafts ✓ Screw shaft 29-9-25 Propeller 29-9-25 Stern tube 29-9-25 Steam pipes tested 22-12-25 Engine and boiler seatings 15-10-25 Engines holding down bolts 21-12-25 Completion of pumping arrangements 5-1-26 Boilers fixed 21-12-25 Engines tried under steam 31-12-25 Completion of fitting sea connections 15-10-25 Stern tube 15-10-25 Screw shaft and propeller 15-10-25. Main boiler safety valves adjusted 31-12-25 Thickness of adjusting washers F 11/32 A 3/8 B.

Material of Crank shaft Steel Identification Mark on Do. 186 P.F. Material of Thrust shaft Steel Identification Mark on Do. 186 P.F.

Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Steel Identification Marks on Do. 186 P.F.

Material of Steam Pipes S.D. Copper ✓ 4 dia. 6 swg. Test pressure 400 lbs 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 Yes. If so, state name of vessel Sculcater ✓

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 1.26. C.L. in the Register Book.

Forge marks on shafting. Screw shaft:- 12349 K.H. Thrust - 12361 K.H. Crank pins 12354 K.H. Crank shaft journals 12358 K.H.

Forging reports will be forwarded with later reports.

It is submitted that this vessel is eligible for THE RECORD + LMC 1.26. CL.

The amount of Entry Fee ... £ 2 : 0 : 0 When applied for, 19/1.1926 Special ... £ 24 : 0 : 0 When received, 22.2.26 Donkey Boiler Fee ... £ : : Travelling Expenses (if any) £ : :

P. Fitzgibbon, Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 22 JAN 1926

Assigned

+ L.M.C. 1.26 C.L.

CERTIFICATE WRITTEN

TUES. 9 MAR 1926



Lloyd's Register Foundation

Certificate (if required) to be sent to Hull

The Surveyors are requested not to write on or below the space for Committee's Minute.