

REPORT ON MACHINERY

No. 40,134

Received at London Office

WED JUN 30 1920

Writing Report 29. 5. 1920 When handed in at Local Office 26. 6. 1920 Port of GLASGOW

Survey held at Alloa Date, First Survey 5. 2. 19. Last Survey 22. 6. 1920

on the S/S "Finny" (Number of Visits 20, Gross Tons Net Tons When built 1920

Built at Alloa By whom built Forth St & E Co Ltd (24)

made at Alloa By whom made Forth St & E Co Ltd (24) when made 1920

made at Paisley By whom made A F Craig & Co Ltd (655) when made 1920

Indicated Horse Power Owners Port belonging to Belfast

Power as per Section 28 45. 73. Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Compound Surface Condensing No. of Cylinders 2 No. of Cranks 2

Boilers 16 1/2 - 36" Length of Stroke 24" Revs. per minute 104 Dia. of Screw shaft 8 1/4" Material of Screw shaft Iron

shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight

propeller boss Yes If the liner is in more than one length are the joints burned — If the liner does not fit tightly at the part

bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive — If two

is the shaft lapped or protected between the liners Length of stern bush 36"

Shaft as per rule 7 1/2 + 1.02 = 7.4 Dia. of Crank shaft journals 8" Dia. of Crank pin 8" Size of Crank webs 5 3/4 x 1 3/4" Dia. of thrust shaft under

8" Dia. of screw 9. 0" Pitch of Screw 11. 6" No. of Blades 4 State whether moveable Yes Total surface 28 ft

2. Diameter of ditto 2 1/2" Stroke 13 1/2" Can one be overhauled while the other is at work Yes

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2. Sizes of Pumps 6 x 6 x 6 6 x 4 1/2 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps

Dea 2. 2" In Holds, &c. 3. 2"

on the 4" Connected to condenser, or to circulating pump Or Pump Is a separate Donkey Suction fitted in Engine room & size Yes 3"

the suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible

connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks both

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

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

are carried through the bunkers Bilge Ballast How are they protected Wood casing

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

Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes

Screw Shaft Tunnel watertight No. Is it fitted with a watertight door — worked from —

ERS, &c.—(Letter for record) Manufacturers of Steel

Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers

Working Pressure 135 lbs Tested by hydraulic pressure to Date of test 5. 5. 20 No. of Certificate 15274

Can be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to

Area of each valve 704 Pressure to which they are adjusted Are they fitted with easing gear

for uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates

Are the shell plates welded or flanged Descrip. of riveting: cir. seams

Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

Strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell

compensating ring No. and Description of Furnaces in each boiler Material Outside diameter

of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings

Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

Area of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:

Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays

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

Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays

Stretch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and

Thickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each

Working pressure by rules 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

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

SUPERHEATER. Type Sudguis Date of Approval of Plan previously approved Tested by Hydraulic Pressure to 600 lbs

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes

Diameter of Safety Valve 4.07" (Single) Pressure to which each is adjusted 150 lbs Is Easing Gear fitted Yes

100-16200-002797-011

SPARE GEAR. State the articles supplied:—
2 Self-stirring

If so, is a report now forwarded?

2 Set of Top End + 4 in Set of Bottom End bolts nuts. 2 Main Bearing bolts. 1 Set of Coupling bolts. 1 Set of Filler for Feed. Balge Pump. Assorted bolts & nuts. Iron of various sizes.

The foregoing is a correct description.

ENGINEERING COY., LTD.

ERIKS OY., LTD.
R. Salziel
Wm. &

Works Secretary *Manufacturer*

Dates of Survey while building	During progress of work in shops - - 1919 Feb 5. 18. During erection on board vessel - - - Apr 20 May 24 Total No. of visits 30 June 10. 25 July 17. 29. Aug 8. 15. 22
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Is the approved plan of main boiler forwarded herewith

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

Connecting rods *17.7.19* Crank shaft *17.7.19* Thrust shaft *5.2.19* Tunnel shafts *14.10.19* Covers *14.10.19* Pistons *14.10.19* Rods *17.7.19*

Stern tube *5.2.19* Steam pipes tested *16.1.20* Engine and boiler seatings *24.3.20* Engines holding down bolts *24.5.20*

Completion of pumping arrangements *24.5.20* Boilers fixed *24.5.20* Engines tried under steam *22.6.20*

Completion of fitting sea connections *24.3.20* Stern tube *24.4.20* Screw shaft and propeller *20.4.20*

Main boiler safety valves adjusted *15.6.20* Thickness of adjusting washers *PV 1/4" SV 1/4" full*

Material of Crank shaft *S* Identification Mark on Do. *4464 CAH* Material of Thrust shaft *S* Identification Mark on Do. *4464 CAH*

Material of Tunnel shafts *✓* Identification Marks on Do. *✓* Material of Screw shafts *9* Identification Marks on Do. *4464 CAH*

Material of Steam Pipes *Lap welded steel* *✓* Test pressure *40.5 lbs*


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 *—*

General Remarks (State quality of workmanship) *—* If so, state name of vessel *—*

General Remarks (State quality of workmanship, opinions as to class, &c. If so, state) *The model.*

The Machinery of this vessel as seen built under
Special Survey & the workmanship & material
are of good quality
The Machinery as seen tried under steam
& found satisfactory & is eligible in our
opinion for the record of  L M C. 6-20.

It is submitted that
this vessel is eligible for
TBE RECORD + LMC 6.20

The amount of Entry Fee	... £	8 : 0	:		When applied for,	29 JUN 1920
Special	... £	11 : 5	:			19
Donkey Boiler Fee	... £	9 :	:		When received,	7-7-20
Travelling Expenses (if any)	£	9 : 17	:			19

Committee's M.

Committee's Minute GLASGOW 29 JUN 1920

Assigned + LMC 6.20

MACHINERY CERT.
WRITTEN.
30.6.20

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Lloyd's Register
Foundation

Commit
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Assigned