Rpt. 5a.

REPORT ON BOILERS.

No. 18590

Received at London Office 10 AUG 1926

Date of writing Report 22/7/1926 When handed in at Local Office 10-8-1926 Port of Greenock

No. in Reg. Book. Survey held at Greenock Date, First Survey 5th February, 1926 Last Survey 9. 8. 1926 (Number of Visits 53.)

on the S/S "Pass of Melfort" Tons Gross 108 Net 25

Master Built at Glasgow By whom built Blythswood S/B C° Ld (12) When built 1926

Engines made at Greenock By whom made John G. Kincaid & C° Ld (630) When made 1926

Boilers made at ditto By whom made ditto (630) When made 1926

Registered Horse Power Owners Bulk Oil S/S C° Ld Port belonging to London.

MULTITUBULAR BOILERS—MAIN, AUXILIARY OR DONKEY.—*Manufacturers of Steel* Colville, Lanarkshire. Gutehoffnungshutte.

(*Letter for record* S) **Total Heating Surface of Boilers** 2534 ☐' *Is forced draft fitted* No **No. and Description of Boilers** One Single Ended 1 S.B. **Working Pressure** 180 *Tested by hydraulic pressure to* 320 *Date of test* 24-6-26

No. of Certificate 1431 *Can each boiler be worked separately* — **Area of fire grate in each boiler** 41-5 ☐' *No. and Description of safety valves to each boiler* Double Spring *Area of each valve* 8.29 □" *Pressure to which they are adjusted* 185

Are they fitted with easing gear Yes *In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler* —

Smallest distance between boilers or uptakes and bunkers or woodwork 18" ~~Mean~~ Int. *dia. of boilers* 16'-3" *Length* 11'-0"

Material of shell plates S *Thickness* 1 11/32" *Range of tensile strength* 28-32 *Are the shell plates welded or flanged* —

Descrip. of riveting: cir. seams DR *long. seams* TR.DBS *Diameter of rivet holes in long. seams* 1 3/8" *Pitch of rivets* 9 1/2"

~~Lap of plates on~~ *width of butt straps* 20 1/4" *Per centages of strength of longitudinal joint* rivets 89.4 plate 85.5 % *Working pressure of shell by rules* 183 *Size of manhole in shell* 20 1/2 × 16 1/2" *Size of compensating ring* 36 3/4 × 22 1/4 × 1 11/32" **No. and Description of Furnaces in each boiler** 4 Corrugated 4 C.F. *Material* S *Outside diameter* 43 1/4" *Length of plain part* top / bottom — *Thickness of plates* crown / bottom 1/2"

Description of longitudinal joint Mild. *No. of strengthening rings* — *Working pressure of furnace by the rules* 180 *Combustion chamber plates: Material* S *Thickness: Sides* 5/8" *Back* 11/16" *Top* 5/8" *Bottom* 3/4" *Pitch of stays to ditto: Sides* 8 1/4 × 9" *Back* 8 × 10 1/2" *Top* 8 1/4 × 9" *If stays are fitted with nuts or riveted heads* Nuts *Working pressure by rules* 189 *Material of stays* S *Area at smallest part* 203.1.43 □" *Area supported by each stay* 84 □" *Working pressure by rules* 180 *End plates in steam space: Material* S *Thickness* 1 1/8"

Pitch of stays 16 1/4 × 18 3/4" *How are stays secured* Nuts & W *Working pressure by rules* 191 *Material of stays* S *Area at smallest part* 5.05 □" *Area supported by each stay* 304 □" *Working pressure by rules* 180 *Material of Front plates at bottom* S *Thickness* 1 11/32" *Material of Lower back plate* S *Thickness* 27/32" *Greatest pitch of stays* 15 7/16" *Working pressure of plate by rules* 181 *Diameter of tubes* 3 1/4"

Pitch of tubes 4 1/2 × 4 7/16 *Material of tube plates* S *Thickness: Front* 1 1/32" *Back* 3/4" *Mean pitch of stays* 10.29 *Pitch across wide water spaces* 14 1/4" *Working pressures by rules* 184 *Girders to Chamber tops: Material* S *Depth and thickness of girder at centre* 9 3/4 × 3/4 (2) *Length as per rule* 34.54 *Distance apart* 9" *Number and pitch of Stays in each* 3 at 8 1/4"

Working pressure by rules 208 *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*

The foregoing is a correct description,
FOR JOHN G. KINCAID & COY., LIMITED.
Robert Greer. *Manufacturer.*

Dates of Survey while building — *During progress of work in shops* - - / *During erection on board vessel* - - - See Machinery Report.

Is the approved plan of boiler forwarded herewith Secretary.

Total No. of visits

GENERAL REMARKS (*State quality of workmanship, opinions as to class, &c.*) This Boiler has been built under Special Survey in accordance with the Approved Plan, & the workmanship & material are of good quality. It is now securely fitted on board. This Report accompanies that of the Machinery.

Survey Fee ... ... £ ...
Travelling Charges on Monthly Rept.

When applied for, ... 19.....
When received, ... 19.....

Wm Gordon Donchein
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 17 AUG 1926 WGM

Assigned See accompanying machinery report TUES. 7 SEP 1926

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