

Working pressure by Rules 141 lbs Are the stays drilled at the outer ends No Margin stays: Diameter { At turned off part, or Over threads 1 1/2"
No. of threads per inch 9 Area supported by each stay 99 sq" Working pressure by Rules 130 lbs
Tubes: Material SS steel External diameter { Plain 3 1/4" Thickness { 9 L W 9 No. of threads per inch 9
Pitch of tubes 4 3/8" x 4 1/4" Working pressure by Rules P. 180 lbs 5236 lbs Manhole compensation: Size of opening in
shell plate 20" x 16" Section of compensating ring 7" x 1 1/8" No. of rivets and diameter of rivet holes 40 - 1 1/16"
Outer row rivet pitch at ends 6" Depth of flange if manhole flanged ✓ Steam Dome: Material None
Tensile strength _____ Thickness of shell _____ Description of longitudinal joint _____
Diameter of rivet holes _____ Pitch of rivets _____ Percentage of strength of joint { Plate _____ Rivets _____
Internal diameter _____ Working pressure by Rules _____ Thickness of crown _____ No. and diameter of
stays _____ Inner radius of crown _____ Working pressure by Rules _____
How connected to shell _____ Size of doubling plate under dome _____ Diameter of rivet holes and pitch
of rivets in outer row in dome connection to shell _____

Type of Superheater _____ Manufacturers of { Tubes _____ Steel castings _____
Number of elements _____ Material of tubes _____ Internal diameter and thickness of tubes _____
Material of headers _____ Tensile strength _____ Thickness _____ Can the superheater be shut off and
the boiler be worked separately _____ Is a safety valve fitted to every part of the superheater which can be shut off from the boiler
Area of each safety valve _____ Are the safety valves fitted with easing gear _____ Working pressure as per
Rules _____ Pressure to which the safety valves are adjusted _____ Hydraulic test pressure:
tubes _____, castings _____ and after assembly in place _____ Are drain cocks or valves fitted
to free the superheater from water where necessary _____

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with Yes
For and on behalf of _____
Director _____
Manufacturer _____
Dates of Survey { During progress of work in shops - - - July 27, Aug. 15, 22, Sept. 1, 8, 19 Oct. 3, 13. Are the approved plans of boiler and superheater forwarded herewith YES
(If not state date of approval.)
while building { During erection on board vessel - - - _____
Total No. of visits _____

Is this Boiler a duplicate of a previous case No If so, state Vessel's name and Report No. ✓

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This boiler has been constructed under Special Survey, in accordance with the approved plan. The materials and workmanship are good, & on completion the boiler was tested by hydraulic pressure to 245 lbs & found tight & satisfactory. This boiler is being forwarded to Newcastle-on-Tyne

This boiler has now been satisfactorily installed on board the Twin Screw Ferry 'Collingwood', built up Cleland (Successors) Ltd, Hillington Quay, on the Tyne & Wear N° 51, has been examined under steam with safety valves adjusted to the approved pressure.
A. J. Hulland.

Survey Fee £ 5 : 18 : - When applied for, 24-10-1939
Travelling Expenses (if any) £ : : When received, 27-12-1939
As per Log Book
2 J. Easthope
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute _____
Assigned Not for Classing _____
Committee _____
See Stwe. _____
78510
TUE 4 JUN 1940
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