

20 FEB 1951
Rpt. 5a

IN D.O.

No. 108122

14 FEB 1951

Received at London Office

Date of writing Report 13. 2. 1951 When handed in at Local Office... 13. 2. 1951 Port of NEWCASTLE-on-TYNE

No. in Reg. Book. Survey held at WALLSEND-ON-TYNE & SUNDERLAND Date, First Survey 3. 6. 49 Last Survey 7. 2. 1951

90928 on the M. V. "HOLLYWOOD" (Number of Visits.....) Tons } Gross 11447.44
SUPPLEMENT Net 6804.24

Master ✓ Built at SUNDERLAND By whom built SIR JAMES LANG & SONS L^{CO} Yard No. 789 When built 1951

Engines made at WALLSEND-ON-TYNE By whom made NORTH EASTERN MARINE ENG. CO (1938) L^{CO} Engine No. 3176 When made 1951

Boilers made at WALLSEND-ON-TYNE By whom made NORTH EASTERN MARINE ENG. CO (1938) L^{CO} Boiler No. 3176 When made 1951

Nominal Horse Power 4974/12 = 415 Owners OIL & MOLASSES TANKERS L^{CO} Port belonging to LONDON

Manufacturers of Steel. COLVILLES L.

Total Heating Surface of Boilers 2487 x 2 = 4974 sq ft. Is forced draught fitted. YES ✓ (Letter for Record 5)

No. and Description of Boilers 2 SINGLE ENDED No. 1807 19.5.50 1392 Coal or Oil fired. OIL FIRED ✓

Tested by hydraulic pressure to 275 LBS/D. Date of test 12 SEP. 2.6.50 No. of Certificate 1393 Working Pressure 150 LBS/D

Area of Firegrate in each Boiler No. and Description of safety valves to each boiler 1-2 1/2 COCKBURNS DOUBLE IMPROVED HIGH LIFT

Area of each set of valves per boiler (per Rule 9.456 D. as fitted 9.8 D. ✓) Pressure to which they are adjusted 150 LBS/D. Are they fitted with easing gear. YES ✓

In case of donkey boilers, state whether steam from main boilers can enter the donkey boiler NO MAIN BOILERS

Smallest distance between boilers or uptakes and bunkers or woodwork 26" Is oil fuel carried in the double bottom under boilers. ✓

Smallest distance between shell of boiler and tank top plating BOILER FLAT 44 1/2" Is the bottom of the boiler insulated. YES

Largest internal dia. of boilers 13'-10 1/6" Length 12'-0" OVERALL Shell plates: Material MILD STEEL Tensile strength 29/33 TONS/D

Thickness 31/32" Are the shell plates welded or flanged. NO Description of riveting: circ. seams (end DR OVERLAP) inter 3/4" ✓

long. seams. 7/8" ✓ Pitch of rivets 7/8" ✓

Diameter of rivet holes in (circ. seams 1 3/32" ✓ long. seams 1 3/32" ✓) Percentage of strength of circ. end seams (plate 66.3% rivets 47.3% Percentage of strength of circ. intermediate seam (plate 86% rivets 86.9% Working pressure of shell by Rules 158 LBS/D

Percentage of strength of longitudinal joint (plate 86% rivets 89.4% combined 89.4% Thickness of butt straps (outer 3/4" ✓ inner 7/8" ✓ No. and Description of Furnaces in each Boiler THREE CORRUGATED DEIGHTON TYPE

Material MILD STEEL Tensile strength 26/30 TONS/D ✓ Smallest outside diameter 3'-2 1/4" ✓

Length of plain part (top 13' ✓ bottom 13' ✓) Thickness of plates (crown 13/32" ✓ Description of longitudinal joint WELD

Dimensions of stiffening rings on furnace or c.c. bottom NONE ✓ Working pressure of furnace by Rules 150.5 LBS/D

End plates in steam space: Material MILD STEEL Tensile strength 26/30 TONS/D ✓ Thickness 1 9/32" ✓ Pitch of stays 19" x 25" ✓

How are stays secured NOT TIED IN. OUT ✓ Working pressure by Rules 155.7 LBS/D

Tube plates: Material (front MILD STEEL back MILD STEEL Tensile strength 29/30 TONS/D ✓ Thickness 7/8" ✓

Lean pitch of stay tubes in nests 9 1/4" Pitch across wide water spaces 13 1/2" x 7 1/4" Working pressure (front 240 LBS/D back 190 LBS/D

Girders to combustion chamber tops: Material MILD STEEL Tensile strength 29/33 TONS/D ✓ Depth and thickness of girder (front 6 1/2" x 1 1/6" ✓ back 6 1/2" x 1 1/6" ✓

Distance apart 6" ✓ No. and pitch of stays 6" x 25" ✓

Working pressure by Rules 150 LBS/D ✓ Combustion chamber plates: Material MILD STEEL

Tensile strength 26/30 TONS/D ✓ Thickness: Sides 5/8" ✓ Back 5/8" ✓ Top 5/8" ✓ Bottom 5/8" ✓

Pitch of stays to ditto: Sides 9 3/4" x 8 1/2" Back 10" x 8 1/2" Top GIRDERS EW Are stays fitted with nuts or riveted over NUTS & EW TO PLATE

Working pressure by Rules 150 LBS/D ✓ Front plate at bottom: Material MILD STEEL Tensile strength 26/30 TONS/D

Thickness 7/8" ✓ Lower back plate: Material MILD STEEL Tensile strength 26/30 TONS/D ✓ Thickness 7/32" ✓

Pitch of stays at wide water space 14 1/4" x 10" Are stays fitted with nuts or riveted over NO EW THROUGH PLATES

Working pressure 191.3 LBS/D ✓ Main stays: Material MILD STEEL Tensile strength 28/32 TONS/D

Diameter (At body of stay 3" ✓ or 3 3/4" ✓ No. of threads per inch 6 ✓ Area supported by each stay 19" x 25" ✓

Working pressure by Rules 165 LBS/D ✓ Screw stays: Material MILD STEEL Tensile strength 26/30 TONS/D

Diameter (At turned off part 1 1/2" ✓ or 1 1/2" ✓ No. of threads per inch 9 ✓ Area supported by each stay 9 3/4" x 8 1/2" ✓

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Working pressure by Rules. *151.3 lbs/sq. in.* Are the stays drilled at the outer ends. *No* Margin stays: Diameter *1 5/8"* At turned off part. *1 5/8"*
 No. of threads per inch *Ed to Rules* Area supported by each stay. *10 x 11 3/8"* Working pressure by Rules. *163.4 lbs/sq. in.*
 Tubes: Material *STEEL (see plan)* External diameter *2 1/2"* Thickness *5/16"* No. of threads per inch *9*
 Pitch of tubes *3 5/8" x 3 3/4"* Working pressure by Rules. *167.95 lbs/sq. in.* Manhole compensation: Size of opening in shell plate. *✓* Section of compensating ring. *✓* No. of rivets and diameter of rivet holes. *✓*
 Outer row rivet pitch at ends. *✓* 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. *✓*
 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. *NONE* Manufacturers of Tubes. *✓* Steel forgings. *✓* 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. *✓* forgings and 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*

The foregoing is a correct description,
 THE NORTH EASTERN MARINE ENGINEERING CO. (1938) LTD.
 Manufacturer.

Dates of Survey while building { During progress of work in shops - - - - - Are the approved plans of boiler and superheater forwarded herewith. *✓*
 During erection on board vessel - - - - - (If not state date of approval.)
 PLEASE SEE REPORT 4B Total No. of visits. *✓*

Is this Boiler a duplicate of a previous case. *YES* If so, state Vessel's name and Report No. *Contract N 3184 NLE Reg N 107556.*

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) *These two donkey boilers have been constructed under Special Survey in accordance with the approved plan & the Society's Rules*
The materials & workmanship are good
The boilers have been satisfactorily installed on board, examined under steam & the safety valves adjusted to the approved pressure.

Survey Fee *4/5 11/11* £ *66 : 10 : 0* When applied for. *13 FEB 1951*
 Travelling Expenses (if any) £ : : When received. *19*

J. A. Orde
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute. *FRI. 2 MAR 1951*
 Assigned. *See F.E. weekly rpt.*