

REPORT ON MACHINERY.

No. 29266

Received at London Office WED. 26 APR. 1916

Date of writing Report 4-4-16 When handed in at Local Office 4-4-16 Port of Hull

No. in Survey held at Hull Date, First Survey 16-11-15 Last Survey 4-4-16 1916

Reg. Book. pt 27 on the steel screw tug 'Valmont' (Number of Visits 44 Gross 245 Tons Net 108)

Master Beverley Built at Beverley By whom built Cook Wilton & Gommell When built 1916

Engines made at Hull By whom made C. D. Holmes & Co. Ltd (No 1030) when made 1916

Boilers made at Hull By whom made C. D. Holmes & Co. Ltd when made 1916

Registered Horse Power 92 Owners A. L. Black Port belonging to Grimsby

Nom. Horse Power as per Section 28 92 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders Three No. of Cranks 3

Dia. of Cylinders 13"-23"-37" Length of Stroke 26" Revs. per minute 7.39 Dia. of Screw shaft 7 3/4" Material of screw shaft Iron

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 yes

Is 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 yes If two liners are fitted, is the shaft lapped or protected between the liners yes Length of stern bush 39 1/2"

Dia. of Tunnel shaft 7 1/4" Dia. of Crank shaft journals 7 3/4" Dia. of Crank pin 7 3/4" Size of Crank webs 5 x 14 3/4" Dia. of thrust shaft under collars 7 3/4" Dia. of screw 9-9" Pitch of Screw 11-3" No. of Blades 4 State whether moveable no Total surface 34 1/2"

No. of Feed pumps one Diameter of ditto 3" Stroke 14 3/4" Can one be overhauled while the other is at work yes 69 E.H.P.

No. of Bilge pumps one Diameter of ditto 3" Stroke 14 3/4" Can one be overhauled while the other is at work yes

No. of Donkey Engines one 43 cwt Sizes of Pumps 6", 4 1/4" x 6" duplex No. and size of Suctions connected to both Bilge and Donkey pumps one 2" dia in each compartment

In Engine Room Two 2" dia all suction also connected to water

No. of Bilge Injections one sizes 3 1/2" Connected to condenser, or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size 3" cwt

Are all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible no

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 strong wooden casings

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

Dates of examination of completion of fitting of Sea Connections 6-1-16 of Stern Tube 6-1-16 Screw shaft and Propeller 6-1-16

Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from yes

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Stewart & Lloyd

Total Heating Surface of Boilers 1557 1/2 Is Forced Draft fitted no No. and Description of Boilers one single ended

Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 31-12-15 No. of Certificate 3126

Can each boiler be worked separately yes Area of fire grate in each boiler 41 1/2 No. and Description of Safety Valves to each boiler Two spring loaded Area of each valve 4.9 Pressure to which they are adjusted 205 Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 7" Mean dia. of boilers 162" Length 10'-6" Material of shell plates steel

Thickness 1 1/32" Range of tensile strength 28-32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams double

long. seams J.R.B. Diameter of rivet holes in long. seams 1 1/32" Pitch of rivets 8 1/16" Lap of plates or width of butt straps 17 1/2"

Per centages of strength of longitudinal joint 88.4 Working pressure of shell by rules 201 Size of manhole in shell 12" x 16"

Size of compensating ring 7" x 1 1/32" No. and Description of Furnaces in each boiler Three plain Material steel Outside diameter 40"

Length of plain part 75" Thickness of plates 3 1/16" Description of longitudinal joint welded No. of strengthening rings one pt

Working pressure of furnace by the rules 203 Combustion chamber plates: Material steel Thickness: Sides 3/4" Back 23/32" Top 1 1/16" Bottom 3/4"

Pitch of stays to ditto: Sides 9 1/2" x 9" Back 9" x 8 1/2" Top 9 1/2" x 9" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 227

Material of stays steel Diameter at smallest part 1 7/16" Area supported by each stay 66.5 Working pressure by rules 212 End plates in steam space: Material steel Thickness 1 1/4" Pitch of stays 17 1/2" x 17" How are stays secured 8.7 x 10 Working pressure by rules 248 Material of stays steel

Area at smallest part 7.5 Area supported by each stay 297 1/2 Working pressure by rules 262 Material of Front plates at bottom steel

Thickness 1" Material of Lower back plate steel Thickness 1" Greatest pitch of stays 13 3/4" x 9" Working pressure of plate by rules 255

Diameter of tubes 3 1/2" Pitch of tubes 4 7/8" x 4 3/4" Material of tube plates steel Thickness: Front 1" Back 7/8" Mean pitch of stays 11"

Pitch across wide water spaces 13 3/4" Working pressures by rules 203 Girders to Chamber tops: Material steel Depth and thickness of girder at centre 10" x 1 3/4" Length as per rule 33 7/8" Distance apart 9 1/2" Number and pitch of stays in each Three 7"

Working pressure by rules 215 Superheater or Steam chest; how connected to boiler yes Can the superheater be shut off and the boiler worked separately yes Diameter yes Length yes Thickness of shell plates yes Material yes Description of longitudinal joint yes Diam. of rivet holes yes Pitch of rivets yes Working pressure of shell by rules yes Diameter of flue yes Material of flue plates yes Thickness yes

If stiffened with rings yes Distance between rings yes Working pressure by rules yes End plates: Thickness yes How stayed yes

Working pressure of end plates yes Area of safety valves to superheater yes Are they fitted with easing gear yes

IS A DONKEY BOILER FITTED? *Yes*

If so, is a report now forwarded? *Yes*

SPARE GEAR. State the articles supplied:— *Two top end bolts & nuts, two bottom end bolts & nuts, two main bearing bolts & nuts, one set of coupling bolts & nuts, one set of air, feed & fly pump valves, a set of donkey pump valves, two safety valve springs, one main & one donkey check valve, one escape valve spring each size, 6 Boiler tubes & a quantity of bolts & nuts & nuts of various sizes.*

The foregoing is a correct description,
p. pro CHARLES D. HOLMES & CO. LTD.

Harold Shearman DIRECTOR

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1915: Nov. 16, 18, 19, 22, 25, 30, Dec. 1, 6, 8, 11, 15, 16, 17, 20, 22, 23, 30, 31.
During erection on board vessel -- 1916 Jan. 15, 16, 10, 12, 17, 20, 21, 25, 26, 31, Feb. 3, 4, 7, 10, 14, 17, Mar. 3, 7, 11, 15, 22, 23, 25, 30, Apr. 4.
Total No. of visits *44.* Is the approved plan of main boiler forwarded herewith *yes*

Dates of Examination of principal parts—Cylinders 23-12-15 Slides 10-2-16 Covers 7-2-16 Pistons 10-2-16 Rods 10-2-16
Connecting rods 7-2-16 Crank shaft 4-2-16 Thrust shaft 10-2-16 Tunnel shafts *✓* Screw shaft 5-1-16 Propeller 5-1-16
Stern tube 1-1-16 Steam pipes tested 23-3-16 Engine and boiler seatings 6-1-16 Engines holding down bolts 11-3-16
Completion of pumping arrangements 4-4-16 Boilers fixed 23-3-16 Engines tried under steam 4-4-16
Main boiler safety valves adjusted 25-3-16 Thickness of adjusting washers *P 3/8 I 5/16*
Material of Crank shaft *Iron* Identification Mark on Do. *1560 FLS* Material of Thrust shaft *Iron* Identification Mark on Do. *1562 FLS*
Material of Tunnel shafts *✓* Identification Marks on Do. *✓* Material of Screw shafts *Iron* Identification Marks on Do. *1544 FLS*
Material of Steam Pipes *solid drawn copper* Test pressure *400*
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 *no* If so, state name of vessel *✓*

General Remarks (State quality of workmanship, opinions as to class, &c.) *The machinery of this vessel has been constructed under special survey in accordance with the approved plans & the rules of this society, the materials & workmanship are good, the machinery has been properly fitted & secured on board the vessel & on completion was tried under steam under full working conditions & found satisfactory. The Boiler & steam pipes have been tested as above & found sound & good the safety valves have been adjusted under steam & tested for accumulation which did not exceed 209 lbs.*

In my opinion the vessel is eligible for the word + L.M.C. 4, 16

It is submitted that
this vessel is eligible for
THE SECOND + L.M.C. 4, 16.

The amount of Entry Fee ... £ 1 : 0 :
Special ... £ 13 : 16 :
Donkey Boiler Fee ... £
Travelling Expenses (if any) £ : 4 : 2 :
When applied for, 25-4-1916
When received, 29-4-1916

Frank L. Stanger
Engineer-Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute *FRI APR 28, 1916*

Assigned *+ L.M.C. 4, 16*

MACHINERY CERTIFICATE
WRITTEN.



© 2020

Lloyd's Register
Foundation