

REPORT ON MACHINERY.

Nav. No. 52851.
Gls. No. 25172
Hull 18987

Port of Glasgow

Received at London Office **22 MAY 1907**

No. in Survey held at Coatbridge

Date, first Survey 14th March

Last Survey 12th April 1907

Book.

(Number of Visits 10)

Gross 321

Net 136

on the S.S. "Vinea"

Master Coole Built at Coole By whom built Coole S. B. Co

When built 1907

Engines made at Coatbridge By whom made W. V. V. Lidgetwood (No 263)

when made 1907

Boilers made at Newcastle By whom made Wallend Shipway & Eng. Co Ltd (No 1838)

when made 1907

Registered Horse Power 85 Owners Southern Steam Trawling Co Ltd

Port belonging to Milford Haven

Net Horse Power as per Section 28 85 Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted No

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

No. of Cylinders 12 1/2", 23", 37" Length of Stroke 25" Revs. per minute 7.77 Dia. of Screw shaft 7 1/4" Material of screw shaft Iron

Is the screw shaft fitted with a continuous liner the whole length of the stern tube No Is the after end of the liner made water tight 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 Painted Length of stern bush 2' 9"

Dia. of Tunnel shaft 6' 6" Dia. of Crank shaft journals 6' 9 1/2" Dia. of Crank pin 7 1/4" Size of Crank webs 3 3/4" x 4 5/8" Dia. of thrust shaft under rollers 7 1/4"

Dia. of screw 9'-0" Pitch of Screw 11'-6" No. of Blades 4 State whether moveable No Total surface 32 sq ft

No. of Feed pumps 1 Diameter of ditto 3" Stroke 12 1/2" Can one be overhauled while the other is at work Yes

No. of Bilge pumps 1 Diameter of ditto 3" Stroke 12 1/2" Can one be overhauled while the other is at work Yes

No. of Donkey Engines two Sizes of Pumps 5 1/4" x 3 1/2" x 5" x 6" x 4" x 6" No. and size of Suctions connected to both Bilge and Donkey pumps one of 2 1/2" dia to hold & one of 2" to each tank

Is the Engine Room two of 7" dia & 2 1/2" dia to hold parts In Holds, &c. one of 2 1/2" dia to hold & one of 2" to each tank

Bilge Injections 1 sizes 3 1/2" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size 2"

Are 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 Yes

Are the 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

Are they are carried through the bunkers Welded Suctions How are they protected wood casing

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

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

Is the examination of completion of fitting of Sea Connections 29. April 07 of Stern Tube 29. April 07 Screw shaft and Propeller 29. April 07

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

Boilers, &c.—(Letter for record R) Manufacturers of Steel J. Spence & Sons Ltd

Total Heating Surface of Boilers 1430 Is Forced Draft fitted No No. and Description of Boilers 1 S-Ended Cyl Multitubular

Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 21.3.07 No. of Certificate 7449

Can each boiler be worked separately Yes Area of fire grate in each boiler 47 3/4 sq ft No. and Description of Safety Valves to each boiler two double spring loaded Area of each valve 5.93 sq in Pressure to which they are adjusted 185 lbs Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork 15" Mean dia. of boilers 36" Length 12' Material of shell plates Iron

Thickness 3/16" Range of tensile strength 45,000 lbs Are the shell plates welded or flanged Welded Descrip. of riveting: cir. seams None

Long. seams None Diameter of rivet holes in long. seams 3/16" Pitch of rivets 2 1/2" Lap of plates or width of butt straps None

Per centages of strength of longitudinal joint None Working pressure of shell by rules 185 lbs Size of manhole in shell None

Size of compensating ring None No. and Description of Furnaces in each boiler None Material Iron Outside diameter None

Length of plain part None Thickness of plates None Description of longitudinal joint None No. of strengthening rings None

Working pressure of furnace by the rules None Combustion chamber plates: Material Iron Thickness: Sides None Back None Top None Bottom None

Pitch of stays to ditto: Sides None Back None Top None If stays are fitted with nuts or riveted heads None Working pressure by rules None

Material of stays Iron Diameter at smallest part None Area supported by each stay None Working pressure by rules None End plates in steam space: None

Material Iron Thickness None Pitch of stays None How are stays secured None Working pressure by rules None Material of stays None

Diameter at smallest part None Area supported by each stay None Working pressure by rules None Material of Front plates at bottom None

Thickness None Material of Lower back plate None Thickness None Greatest pitch of stays None Working pressure of plate by rules None

Diameter of tubes None Pitch of tubes None Material of tube plates None Thickness: Front None Back None Mean pitch of stays None

Pitch across wide water spaces None Working pressures by rules None Girders to Chamber tops: Material Iron Depth and thickness of girder at centre None Length as per rule None Distance apart None Number and pitch of stays in each None

Working pressure by rules None Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked separately None Diameter None Length None Thickness of shell plates None Material None Description of longitudinal joint None Diam. of rivet holes None Pitch of rivets None Working pressure of shell by rules None Diameter of flue None Material of flue plates None Thickness None

Lloyd's Register Foundation

VERTICAL DONKEY BOILER— Manufacturers of Steel

No. _____ Description _____
 Made at _____ By whom made _____ When made _____ Where fixed _____
 Working pressure _____ tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____ Fire grate area _____ Description of _____
 Valves _____ No. of Safety Valves _____ Area of each _____ Pressure to which they are adjusted _____ Date of adjustment _____
 If fitted with easing gear _____ If steam from main boilers can enter the donkey boiler _____ Dia. of donkey boiler _____ Length _____
 Material of shell plates _____ Thickness _____ Range of tensile strength _____ Descrip. of riveting long. seams _____ Rivets _____ Plates _____
 Dia. of rivet holes _____ Whether punched or drilled _____ Pitch of rivets _____ Lap of plating _____ Per centage of strength of joint _____
 Working pressure of shell by rules _____ Thickness of shell crown plates _____ Radius of do. _____ No. of stays to do. _____ Dia. of stays _____
 Diameter of furnace Top _____ Bottom _____ Length of furnace _____ Thickness of furnace plates _____ Description of joint _____
 Working pressure of furnace by rules _____ Thickness of furnace crown plates _____ Stayed by _____
 Diameter of uptake _____ Thickness of uptake plates _____ Thickness of water tubes _____ Dates of survey _____

SPARE GEAR. State the articles supplied:— *As per rules; 1 safety valve spring*

The foregoing is a correct description,

for W. V. Lidgerwood Manufacturer.

Dates of Survey while building
 During progress of work in shops— *1907 March 14 22 April 5 12*
 During erection on board vessel— *Nov 1907 Oct 24 27 Hull Mar 11 May 6 7*
 Total No. of visits *4 + 6 = 10*

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

Dates of Examination of principal parts— Cylinders *22.3.07* Slides *22.3.07* Covers *22.3.07* Pistons *22.3.07* Rods *5.4.07*
 Connecting rods *5.4.07* Crank shaft *5.4.07* Thrust shaft *5.4.07* Tunnel shafts _____ Screw shaft *5.4.07* Propeller *22.3.07*
 Stern tube *22.3.07* Steam pipes tested *26 April 07* Engine and boiler seatings *24 April 07* Engines holding down bolts *24 April 07*
 Completion of pumping arrangements *29 April 07* Boilers fixed *29 April 07* Engines tried under steam *29 April 07*
 Main boiler safety valves adjusted *29 April 07* Thickness of adjusting washers *PVR 5/16 SVR 3/8*
 Material of Crank shaft *steel* Identification Mark on Do. *263* Material of Thrust shaft *steel* Identification Mark on Do. *263*
 Material of Tunnel shafts _____ Identification Marks on Do. _____ Material of Screw shafts *iron* Identification Marks on Do. *263*
 Material of Steam Pipes _____ *Copper* Test pressure *360 lb*

General Remarks (State quality of workmanship, opinions as to class, &c.)

The machinery has been built under special survey, the material and workmanship being good. It has been forwarded to both Shields to be fitted aboard.

In regard to the pumps: the case was submitted for the Committee's approval and accepted, see London letter 31st January 1907; reference E. The machinery fitted on board, tried under steam and found satisfactory in my opinion this vessel is worthy of the notification of L.M.C. 5-07.

It is submitted that this vessel is eligible for THE RECORD.

+ L.M.C. 5-07

Certificate (if required) to be sent to _____

The amount of Entry Fee _____
 Due Glasgow _____
 Special _____
 Due Newcastle _____
 Donkey Boiler Fee _____
 Travelling Expenses (if any) £ _____
 Glasgow 29 APR 1907

When applied for, _____
 When received, _____
 A. J. Thomas & Donald Shalliceon
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.
 FRI. MAY 24 1907

Committee's Minute _____
 Assigned _____
 Deferred for completion _____
 For Nav _____

