

REPORT ON MACHINERY.

No. 29205

Received at London Office

SAT 25 MAR 1916

of writing Report 21- 3- 1916 When handed in at Local Office 21- 3- 1916 Port of Hull

in Survey held at Hull Date, First Survey Nov 26/14 Last Survey 7- 3- 1916

Book. on the Steam Trawler "Viranti" (Number of Volls 70 Tons Gross 226 Net 109 When built 1916)

ster Built at Beverley By whom built Cook, Welton & Gemmell

ines made at Hull By whom made Amos & Smith Ltd (No 2659) when made 1916

lers made at Hull By whom made Amos & Smith Ltd. when made 1916

istered Horse Power Owners A. L. Black Port belonging to Grimsby

n. Horse Power as per Section 28 75. Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

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

of Cylinders 12" 21" 34" Length of Stroke 24" Revs. per minute 110 Dia. of Screw shaft as per rule 7.23" Material of screw shaft as fitted 7.2" Iron

he 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

he propeller boss yes If the liner is in more than one length, are the joints burned — If the liner does not fit tightly at the part

ween the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive — If two

rs are fitted, is the shaft lapped or protected between the liners — Length of stern bush 34"

of Tunnel shaft as per rule 6.48" Dia. of Crank shaft journals as per rule 6.8" Dia. of Crank pin 7" Size of Crank webs 13 3/4" x 4 3/8" Dia. of thrust shaft under

ars 7" Dia. of screw 8-9" Pitch of Screw 11-0" No. of Blades 4 State whether moveable no Total surface 29 sq ft

of Feed pumps 1 Diameter of ditto 2 5/8" Stroke 12" Can one be overhauled while the other is at work —

of Bilge pumps 1 Diameter of ditto 2 7/8" Stroke 12" Can one be overhauled while the other is at work —

of Donkey Engines 1 Sizes of Pumps 6 1/4" x 4 3/4" x 6" No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room two 2"; one forward & one aft. In Holds, &c. two 2", fore hold & slushwell,

2" ejecta from all bilges.

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

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 —

all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both

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

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

hat pipes are carried through the bunkers Forward hold suction How are they protected wood casings

all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes

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

tes of examination of completion of fitting of Sea Connections 22- 4-15 of Stern Tube 22- 4-15 Screw shaft and Propeller 22- 4-15

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

ILERS, &c.—(Letter for record S) Manufacturers of Steel Steel Co. of Scotland.

tal Heating Surface of Boilers 1268 sq ft Is Forced Draft fitted no No. and Description of Boilers one single ended

orking Pressure 200 lb Tested by hydraulic pressure to 400 lb Date of test 21-12-15 No. of Certificate 3123

n each boiler be worked separately — Area of fire grate in each boiler 31.5 sq ft No. and Description of Safety Valves to

h boiler 2 spring loaded Area of each valve 3.97 sq ft Pressure to which they are adjusted 205 lb Are they fitted with easing gear yes

allest distance between boilers or uptakes and bunkers or woodwork abt 7" Mean dia. of boilers 12-9 1/8" Length 10-0" Material of shell plates S

ickness 1 5/32 Range of tensile strength 28-32 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams DR

g. seams TRDBS Diameter of rivet holes in long. seams 1 3/16 Pitch of rivets 7 3/4 Lap of plates or width of butt straps 16 3/4

r centages of strength of longitudinal joint rivets 91.4 plate 84.67 Working pressure of shell by rules 200 Size of manhole in shell 16" x 12"

ie of compensating ring 40" x 30" x 1 1/8" No. and Description of Furnaces in each boiler 3 plain Material S Outside diameter 3-1 1/8"

length of plain part top 38 1/4 Thickness of plates crown 13 Bottom 16 Description of longitudinal joint welded No. of strengthening rings —

orking pressure of furnace by the rules 214 Combustion chamber plates: Material S Thickness: Sides 3/4 Back 23/32 Top 11/16 Bottom 3/4

atch of stays to ditto: Sides 8 3/8" x 9 1/2" Back 8" x 9 1/4" Top 8 1/2" x 9 1/2" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 202

aterial of stays S Diameter at smallest part 2-0660 Area supported by each stay 79.50 Working pressure by rules 234 End plates in steam space:

aterial S Thickness 1 1/16 Pitch of stays 16 1/2" x 15 3/4" How are stays secured Screws Working pressure by rules 206 Material of stays S

iameter at smallest part 6-10 Area supported by each stay 260 sq ft Working pressure by rules 244 Material of Front plates at bottom S

ickness 1 1/16 Material of Lower back plate S Thickness 15/16 Greatest pitch of stays 14 1/2" x 8" Working pressure of plate by rules 222

iameter of tubes 3 1/2 Pitch of tubes 4 2/8" x 5" Material of tube plates S Thickness: Front 1 1/16 Back 7/8 Mean pitch of stays 10-8"

itch across wide water spaces 14 1/2 Working pressures by rules 206 lb Girders to Chamber tops: Material S Depth and

ickness of girder at centre 8" x 2" Length as per rule 2-8 3/4 Distance apart 8 1/2 Number and pitch of stays in each two 9 1/2"

orking pressure by rules 211 Superheater or Steam chest; how connected to boiler — Can the superheater be shut off and the boiler worked

parately — Diameter — Length — Thickness of shell plates — Material — Description of longitudinal joint — Diam. of rivet

oles — Pitch of rivets — Working pressure of shell by rules — Diameter of flue — Material of flue plates — Thickness —

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

orking pressure of end plates — Area of safety valves to superheater — Are they fitted with easing gear —

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

No

SPARE GEAR. State the articles supplied:-

Two top end bolts & nuts, two bottom end bolts & nuts, 2 main bearing bolts & nuts, one set of coupling bolts & nuts; one set of feed, bilge, & air pump valves, one main & one donkey check valve, & a quantity of bolts & nuts & iron of various sizes.

The foregoing is a correct description,

FOR AMOS & SMITH LTD.

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1914: - Nov 26 Dec 11 16 1915: - Feb 18 22 Mar 1 5 9 18 20 26 29 Apr 15 16 19 20 22 23
During erection on board vessel -- 26 May 4 12 19 21 27 Jun 4 10 17 22 26 Jul 2 9 14 21 27 Aug 4 13 20 27 Sep 3 13 20 25
Total No. of visits 70
Is the approved plan of main boiler forwarded herewith yes

Dates of Examination of principal parts-- Cylinders 11-10-15 Sides 17-12-15 Covers 11-10-15 Pistons 25-11-15 Rods 25-11-15

Connecting rods 17-12-15 Crank shaft 15-1-16 Thrust shaft 15-1-16 Tunnel shafts 19-4-15 Screw shaft 19-4-15 Propeller 19-4-15

Stern tube 19-4-15 Steam pipes tested 14-2-16 Engine and boiler seatings 22-4-15 Engines holding down bolts 11-2-16

Completion of pumping arrangements 7-3-16 Boilers fired 11-2-16 Engines tried under steam 18-2-16

Main boiler safety valves adjusted 18-2-16 Thickness of adjusting washers 3/8" P & S.

Material of Crank shaft Steel Identification Mark on Do. 15-1-16 Material of Thrust shaft Steel Identification Mark on Do. 15-1-16

Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Iron Identification Marks on Do. 19-4-15

Material of Steam Pipes S.D. Copper Test pressure 400 lbs per sq. inch.

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 yes If so, state name of vessel

"Carillon"

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 and workmanship are good; the boiler & steam pipes have been tested as above by hydraulic pressure, & found sound and good.

The machinery has been properly fitted & secured on board, & on completion tried under steam & found satisfactory.

The safety valves have been adjusted under steam & tested for accumulation, which did not exceed 210 lbs per sq. inch.

In my opinion the vessel is eligible for the record + LMC 3.16.

It is submitted that this vessel is eligible for THE RECORD + LMC 3.16.

P. Fitzgerald 28/3/16.

The amount of Entry Fee ... £ 1 : - : - When applied for, 23/3/1916
Special ... £ 11 : 5 : -
Donkey Boiler Fee ... £
Travelling Expenses (if any) £ - : 2 : - When received, 4/4/1916

P. Fitzgerald Engineer & Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

Assigned

+ LMC 3.16

MACHINERY CERTIFICATE WRITTEN



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