

REPORT ON MACHINERY.

No. 75674

-7 NOV 1916

Received at London Office

WED. 8-NOV. 1916

of writing Report Oct 31st 1916 When handed in at Local Office

Port of

in Survey held at LythamDate, First Survey Sept 16th Last Survey Oct 30th 1916Book. on the S.S. "Limesfield"(Number of Visits 27)Tons { Gross 427
Net 166ter Jones Built at Lytham By whom built Lytham Ship Ring Co Ltd When built 1915ines made at Lytham By whom made Lytham Ship Ring Co Ltd when made 1915ers made at Do By whom made Do when made 15istered Horse Power 88 Owners Lillak Ship & Engineering Co Port belonging to LiverpoolHorse Power as per Section 28 88 Is Refrigerating Machinery fitted for cargo purposes ho Is Electric Light fitted hoINES, &c.—Description of Engines Vertical Triple Expansion No. of Cylinders Three No. of Cranks 3of Cylinders 14-22-38 Length of Stroke 24 Revs. per minute 110 Dia. of Screw shaft as per rule 7-3 Material of screw shaft Ironhe screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tighthe 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 parteen the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive Yes If twors are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 3-2of Tunnel shaft as per rule 6-8 Dia. of Crank shaft journals as per rule 7-14 Dia. of Crank pin 7-14 Size of Crank webs 4-14 Dia. of thrust shaft underrs 7-14 Dia. of screw 8-6 Pitch of Screw 10-6 No. of Blades 4 State whether moveable Yes Total surface 25-0of Feed pumps Two Diameter of ditto 2-1/2 Stroke 12 Can one be overhauled while the other is at work Yesof Bilge pumps Two Diameter of ditto 2-1/2 Stroke 12 Can one be overhauled while the other is at work Yesof Donkey Engines Two Sizes of Pumps (1) 5-1/2 x 3-1/2 x 6" Duplex No. and size of Suctions connected to both Bilge and Donkey pumpsEngine Room one 2-1/2" Centre Suction, two 2" rings In Holds, &c. Three 2-1/2" Suctions to Main holdof 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 1-1/2all 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 Yesall connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks boththey 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 abovethey 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 Yesat pipes are carried through the bunkers Suction to Main hold, Ballast tank How are they protected Wood Chasingall Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yesthe Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yesthe Screw Shaft Tunnel watertight no tunnel Is it fitted with a watertight door Yes worked from YesMLERS, &c.—(Letter for record S) Manufacturers of Steel Beardmoretal Heating Surface of Boilers 1520 Is Forced Draft fitted ho No. and Description of Boilers one Cylind. Multituborking Pressure 180 lb Tested by hydraulic pressure to 360 lb Date of test 14/7/16 No. of Certificate 2014n each boiler be worked separately Yes Area of fire grate in each boiler 50 No. and Description of Safety Valves toh boiler Two spring loaded Area of each valve 2-1/2 Pressure to which they are adjusted 185 lb Are they fitted with easing gear Yesallest distance between boilers or uptakes and bunkers or woodwork 24 Mean dia. of boilers 13-0 Length 10-0 Material of shell plates steelickness 1-1/8 Range of tensile strength 28-32 tons Are the shell plates welded or flanged ho Descrip. of riveting: cir. seams DR lapg. seams Double butt Diameter of rivet holes in long. seams 1-1/8 Pitch of rivets 8 Lap of plates or width of butt straps 1-1/4centages of strength of longitudinal joint rivets 87 Working pressure of shell by rules 181 lb Size of manhole in shell 16 x 12e of compensating ring 9 x 1 No. and Description of Furnaces in each boiler Three plain Material Steel Outside diameter 3-3ngth of plain part top 6-3 Thickness of plates crown 3-3/4 Description of longitudinal joint weld No. of strengthening rings one partialorking pressure of furnace by the rules 182 lb Combustion chamber plates: Material Steel Thickness: Sides 1-1/8 Back 7-8 Top 1-1/8 Bottom 1-1/8ch of stays to ditto: Sides 9-1/2 x 9-1/2 Back 9-1/2 x 9-1/2 Top 9-1/2 x 9-1/2 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 180 lbaterial of stays Steel Area at smallest part 1-7/8 Area supported by each stay 880 Working pressure by rules 183 lb End plates in steam space:aterial Steel Thickness 1-1/8 Pitch of stays 1-1/4 x 1-1/4 How are stays secured Nuts & washers Working pressure by rules 180 lb Material of stays Steelea at smallest part 6-7 Area supported by each stay 3350 Working pressure by rules 188 lb Material of Front plates at bottom Steelickness 3-1/4 Material of Lower back plate Steel Thickness 1-1/8 Greatest pitch of stays as per plan Working pressure of plate by rules 182 lb32. diameter of tubes 3-1/2 Pitch of tubes 4-3/4 x 4-7/8 Material of tube plates Steel Thickness: Front 3-1/4 Back 3-1/4 Mean pitch of stays 10-3/8tch across wide water spaces 14 Working pressures by rules 180 lb Girders to Chamber tops: Material Steel Depth andckness of girder at centre 8-3/4 x 3-1/4 Length as per rule 2-7-8 Distance apart 9-1/2 Number and pitch of stays in each Two 9-1/4orking pressure by rules 180 lb Steam dome: description of joint to shell Yes % of strength of joint Yesiameter Yes Thickness of shell plates Yes Material Yes Description of longitudinal joint Yes Diam. of rivet holes Yestch of rivets Yes Working pressure of shell by rules Yes Crown plates Yes Thickness Yes How stayed YesPERHEATER. Type Yes Date of Approval of Plan Yes Tested by Hydraulic Pressure to Yessits Yes Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yesater of Safety Valve Yes Pressure to which each is adjusted Yes Is Easing Gear fitted Yes

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

Yes

SPARE GEAR.

State the articles supplied:-

Set of coupling bolts, two top & two bottom end bolts, two main bearing bolts, set of feed bilge pump valves, quantity of assorted bolts & nuts, iron of various sizes, eccles strap.

The foregoing is a correct description,

THE LYTHAM SHIPBUILDING and
ENGINEERING COMPANY, LIMITED

W. Lumsley

Manufacturer.

Dates of Survey while building
During progress of work in shops - - - Sept 16, 21, Oct 6, 20, 27, Nov 4, 10, 26, Dec 22, Jan 20, Feb 23, 1916
During erection on board vessel - - - Mar 3, 17, 28, Apr 12, May 10, Jun 1, 15, July 6, 14, Aug 2, 30, Sept 25, Oct 19, 24, 30, 27
Total No. of visits 27

Is the approved plan of main boiler forwarded herewith

Yes

" " " donkey " " "

Dates of Examination of principal parts - Cylinders 10/15, 14/15, 4/16 Slides 30/8/16 Covers 4/16 Pistons 30/8/16 Rods 30/8/16
Connecting rods 30/8/16 Crank shaft 30/8/16 Thrust shaft 30/8/16 Tunnel shafts 30/8/16 Screw shaft 30/8/16 Propeller 25/9/16
Stern tube 2/16 Steam pipes tested 24/10/16 Engine and boiler seatings 30/8/16 Engines holding down bolts 19/10/16
Completion of pumping arrangements 19/10/16 Boilers fixed 19/10/16 Engines tried under steam 30/10/16
Completion of fitting sea connections 3/3/16 Stern tube 3/3/16 Screw shaft and propeller 29/10/16
Main boiler safety valves adjusted 30/10/16 Thickness of adjusting washers Port 3/8" Star 5/16"
Material of Crank shaft Steel Identification Mark on Do. 875 Material of Thrust shaft Steel Identification Mark on Do. 875
Material of Tunnel shafts Steel Identification Marks on Do. 875 Material of Screw shaft Iron Identification Marks on Do. 875
Material of Steam Pipes Copper, solid drawn 3 3/4" dia. Test pressure 360 lb sq in

Is an installation fitted for burning oil fuel

No

Is the flash point of the oil to be used over 150°F.

Yes

Have the requirements of Section 49 of the Rules been complied with

Yes

Is this machinery duplicate of a previous case

Yes

If so, state name of vessel

SS Silverfield

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

The Machinery of this vessel has been constructed under special survey and the materials & workmanship are good throughout.

The machinery has been examined under steam & found satisfactory and is eligible in my opinion for record of LMC 10.16

It is submitted that
this vessel is eligible for
THE RECORD + LMC 10.16.

J. W. D.

9/11/16

The amount of Entry Fee ... £ 1 : 0 : 0 When applied for,
Special ... £ 13 : 4 : 0 17 NOV 1916
Donkey Boiler Fee ... £ : : : Not Det.
Travelling Expenses (if any) £ 6 : 13 : 1 When received, 20.12.1916

Committee's Minute LIVERPOOL

7 NOV 1916

Assigned

L M C 10.16

MACHINERY CERTIFICATE
WHEN RECEIVED

When Fee is Paid.



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Lloyd's Register
Foundation

These part
Signal Letters

Official Num

13752

No., Date, and
Whether British
Foreign Built.

British

Number of Decks
Number of Masts
Rigged ...
Stern ...
Build ...
Galleries ...
Head ...
Framework and
vessel ...
Number of Bulkheads
Number of water
and their capaci

Total to quarter the depth
to bottom of keel

No. of
sets of
Engines.

Description

One

Triple expansion
inverted double
reciprocating

No. of
Shafts.

Particulars

One

Description
Number
Iron or Steel
Loaded Pressure

GROSS

Under Tonnage Deck
Space or spaces betw
Turret or Trunk ...
Forecastle ...
Bridge space ...
Roop or Break ...
Side Houses ...
Deck Houses ...
Chart House ...
Spaces for machinery
Section 78 (2) of th
1894 ...
Excess of Hatchways

Gross Tonna
Deductions, as per Co
Registered T

NOTE 1.—The tonnage of
Deck for prop

NOTE 2.—The underment

Name of Mas

No. of Owners

Name, Residence, and

Zillah Shipping

7, Br

Dated 28th

(830) (71265) Wt. 40422/94