

# REPORT ON MACHINERY.

No. 75674

-7 NOV 1916

Received at London Office

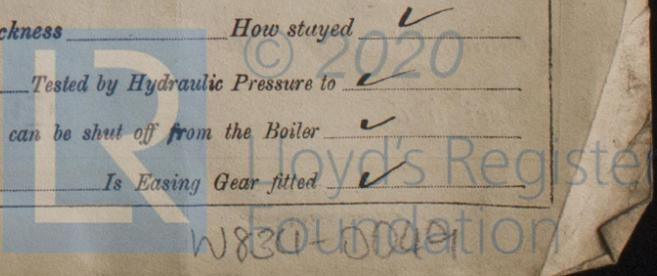
WED. 8 - NOV. 1916

of writing Report Oct 31<sup>st</sup> 1916 when handed in at Local Office 1916 Port of Lytham  
 in Survey held at Lytham Date, First Survey Sept 16<sup>th</sup> 1916 Last Survey Oct 30<sup>th</sup> 1916  
 Book. on the S.S. Limesfield (Number of Visits 27) Tons { Gross 427 Net 160  
 ter Jones Built at Lytham By whom built Lytham Ship Bldg Co Ltd When built 1915  
 ines made at Lytham By whom made Lytham Ship Bldg Co Ltd when made 1915  
 ers made at Do By whom made Do when made 15  
 istered Horse Power 88 Owners Lillah Ship Bldg Co Ltd Port belonging to Liverpool  
 Horse Power as per Section 28 88 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted no

INES, &c.—Description of Engines Vertical Triple Expansion No. of Cylinders Three No. of Cranks 3  
 of 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 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 Yes If the liner does not fit tightly at the part  
 een the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive Yes If two  
 rs are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 3-2  
 of 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 1/2 x 14 dia Dia. of thrust shaft under  
 rs 7.14 Dia. of screw 8.6 Pitch of Screw 10.6 No. of Blades 4 State whether moveable Yes Total surface 25 sq  
 of Feed pumps Two Diameter of ditto 2 1/2 Stroke 12 Can one be overhauled while the other is at work Yes  
 of Bilge pumps Two Diameter of ditto 2 1/2 Stroke 12 Can one be overhauled while the other is at work Yes  
 of Donkey Engines Two Sizes of Pumps (1) 5 1/2 x 3 1/2 x 6 Duplex (2) 6 1/2 x 6 1/2 x 8 No. and size of Suctions connected to both Bilge and Donkey pumps  
 Engine Room one 2 1/2" Centre Suction, two 2" wings in Holds, &c. Three 2 1/2" suction to Main hold one 3" suction to fore peak  
 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 Yes - 2 1/2  
 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 Yes  
 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  
 at pipes are carried through the bunkers Suction to Main hold, Ballast tank fore peak How are they protected Wood Chasing  
 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  
 the Screw Shaft Tunnel watertight no tunnel Is it fitted with a watertight door Yes worked from Yes

MLERS, &c.—(Letter for record 5) Manufacturers of Steel Beardmore  
 tal Heating Surface of Boilers 1520 Is Forced Draft fitted no No. and Description of Boilers One Cylinder Multitub  
 orking Pressure 180 lb sq Tested by hydraulic pressure to 360 lb sq Date of test 14/7/16 No. of Certificate 2014  
 n each boiler be worked separately Yes Area of fire grate in each boiler 500 No. and Description of Safety Valves to  
 h boiler Two Spring loaded Area of each valve 2 1/2 Pressure to which they are adjusted 185 lb sq Are they fitted with easing gear Yes  
 allest distance between boilers or uptakes and bunkers or woodwork 24 Mean dia. of boilers 13-0 Length 10-0 Material of shell plates Steel  
 ickness 1 1/8 Range of tensile strength 28-32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams DR Lap  
 g. seams Double Riv Double butts Diameter of rivet holes in long. seams 1 1/8 Pitch of rivets 8 Lap of plates or width of butt straps 1-4/4  
 rcentage of strength of longitudinal joint rivets 87 Working pressure of shell by rules 181 lb sq Size of manhole in shell 16 x 12  
 e of compensating ring 9 x 1 No. and Description of Furnaces in each boiler Three plain Material Steel Outside diameter 3-3  
 ngth of plain part top 6-3 Thickness of plates crown 3/32 Description of longitudinal joint weld No. of strengthening rings one partial  
 orking pressure of furnace by the rules 182 1/2 Combustion chamber plates: Material Steel Thickness: Sides 1/16 Back 7/8 Top 1/16 Bottom 1/16  
 ch of stays to ditto: Sides 9 1/2 x 9 1/4 Back 9 x 8 1/4 Top 9 1/2 x 9 1/4 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 180 lb  
 aterial of stays Steel Area at smallest part 1-790 Area supported by each stay 880 Working pressure by rules 183 1/2 End plates in steam space:  
 aterial Steel Thickness 1 1/8 Pitch of stays 16 1/4 x 16 1/4 How are stays secured Nuts & washers Working pressure by rules 180 lb Material of stays Steel  
 ea at smallest part 6-7 1/2 Area supported by each stay 3350 Working pressure by rules 188 lb Material of Front plates at bottom Steel  
 ickness 3/16 Material of Lower back plate Steel Thickness 13/16 Greatest pitch of stays as per plan Working pressure of plate by rules 182 1/2  
 32. Diameter of tubes 3 1/2 Pitch of tubes 4 3/4 x 4 7/8 Material of tube plates Steel Thickness: Front 3/4 Back 3/4 Mean pitch of stays 10 3/8  
 ch across wide water spaces 14 Working pressures by rules 180 lb sq Girders to Chamber tops: Material Steel Depth and  
 ckness of girder at centre 8 3/4 x 3 1/4 Length as per rule 2-7 1/8 Distance apart 9 1/2 Number and pitch of stays in each Two 9 1/4  
 orking pressure by rules 180 lb Steam dome: description of joint to shell Yes % of strength of joint Yes  
 ameter Yes Thickness of shell plates Yes Material Yes Description of longitudinal joint Yes Diam. of rivet holes Yes  
 ch of rivets Yes Working pressure of shell by rules Yes Crown plates Yes Thickness Yes How stayed Yes

PERHEATER. Type Yes Date of Approval of Plan Yes Tested by Hydraulic Pressure to Yes  
 e of Test Yes Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler Yes  
 ator 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? ✓

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, ecclesias strap.*

The foregoing is a correct description,

THE LYTHAM SHIPBUILDING and ENGINEERING COMPANY, LIMITED

*W. Lumsden* 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, Sep 25, Oct 19, 24, 30, 27*  
 Total No. of visits *27* Is the approved plan of main boiler forwarded herewith *Yes* ✓

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 *3/16, 4/16* 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 *3/2/16* 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"*

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 *S/S 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*

*J. J. Milton R.D. Philston*  
 Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 1 : 0 : 0 When applied for,  
 Special ... £ 13 : 4 : 0 17 NOV 1916  
 Donkey Boiler Fee ... £ : : :  
 Travelling Expenses (if any) £ 6 : 13 : 1 20.12.19.16 21/12/16

Committee's Minute LIVERPOOL 7 NOV 1916

Assigned *L No 6 10.16*

MACHINERY CERTIFICATE

When Fee is Paid.



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These parts  
 Signal Letters  
 Official Number  
 13752  
 No., Date, and  
 Whether British or 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 capacity  
 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  
 GROU  
 Under Tonnage Deck  
 Space or spaces between  
 Turret or Trunk ...  
 Forecastle ...  
 Bridge space ...  
 Reop or Break ...  
 Side Houses ...  
 Deck Houses ...  
 Chart House ...  
 Spaces for machinery Section 78 (2) of the 1894 ...  
 Excess of Hatchways  
 Gross Tonnage  
 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, Co  
 Dated 28<sup>th</sup> 1916  
 (830) (71265) Wt. 40422/94

The Surveyors are requested not to sign below the space for Committee's Minute.