

REPORT ON MACHINERY.

No. 40546

WED NOV. 10 1920

Date of writing Report 2nd Nov 1920 When handed in at Local Office 6-11-20 Port of Glasgow
 No. in Survey held at Glasgow Date, First Survey 30-4-20 Last Survey 1st Nov 1920
 Reg. Book. on the S. S. Inverampston (Number of Visits 22)
 Master M. McDonald Built at Govan By whom built Harland & Wolff Ltd (6259) When built 1920
 Engines made at Glasgow By whom made A. J. Inglis Ltd (6259) when made 1920
 Boilers made at Glasgow By whom made A. J. Inglis Ltd (6259) when made 1920
 Registered Horse Power 62 Owners British Mexican Petroleum Co. Ltd Port belonging to London
 Nom. Horse Power as per Section 28 62 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Compound No. of Cylinders 2 No. of Cranks 2
 Dia. of Cylinders 13 1/2 x 24 Length of Stroke 18 Revs. per minute 144 Dia. of Screw shaft 5 1/8 as per rule 5 1/8 Material of screw shaft 8
 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 in 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 25
 Dia. of Tunnel shaft 5 1/2 as per rule 4 3/4 Dia. of Crank shaft journals 5 1/8 as per rule 5 1/8 Dia. of Crank pin 5 3/4 Size of Crank webs 6 5/8 x 4 Dia. of thrust shaft under collars 5 1/2 Dia. of screw 4 0 Pitch of Screw 6 1/2 No. of Blades 4 State whether moveable No Total surface 20 1/2
 No. of Feed pumps 1 Weirs Diameter of ditto 6 1/2 x Stroke 4 1/2 x 10 Can one be overhauled while the other is at work Yes
 No. of Bilge pumps 1 Weirs Diameter of ditto 8 x 8 x Stroke 18 Can one be overhauled while the other is at work Yes
 No. of Donkey Engines 2 Sizes of Pumps 1 1/2 x 8 x 18 1 1/2 x 8 x 18 No. and size of Suctions connected to both Bilge and Donkey pumps
 In Engine Room 1-6 Dia. 1-2 1/2 Dia. Stem Suction In Holds, &c. Yes
 No. of Bilge Injections 1 sizes 4 1/2 Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size 1-4 1/2
 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 Yes
 Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Valves
 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 None How are they protected Yes
 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
 Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Yes

BOILERS, &c.—(Letter for record 8) Manufacturers of Steel David Colville Bros Ltd
 Total Heating Surface of Boilers 1651 1/2 Is Forced Draft fitted No No. and Description of Boilers 1 Single Ended
 Working Pressure 100 lbs Tested by hydraulic pressure to 200 lbs Date of test 9-9-20 No. of Certificate 15475
 Can each boiler be worked separately Yes Area of fire grate in each boiler Oil Fuel No. and Description of Safety Valves to each boiler 2 Spring Loaded Area of each valve 11 04 Pressure to which they are adjusted 105 lbs Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork 2 1/2 Mean dia. of boilers 13 0 Length 11 0 Material of shell plates 8
 Thickness 3/4 Range of tensile strength 28/32 Lons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams D.R. long. seams D.B.S. TR. Diameter of rivet holes in long. seams 16 Pitch of rivets 6 3/8 Lap of plates or width of butt straps 1 1/2
 Per centages of strength of longitudinal joint 111 1/4 Working pressure of shell by rules 119 Size of manhole in shell 16 x 12
 Size of compensating ring 31 x 24 No. and Description of Furnaces in each boiler 3 Horizontal Material 8 Outside diameter 3 1/4
 Length of plain part 1 Thickness of plates 16 Description of longitudinal joint Weld No. of strengthening rings 1
 Working pressure of furnace by the rules 45 5 Combustion chamber plates: Material 8 Thickness: Sides 16 Back 16 Top 16 Bottom 16
 Pitch of stays to ditto: Sides 8 1/2 Back 9 x 8 1/2 Top 8 1/2 x 9 If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 142
 Material of stays 8 Area at smallest part 1 1/6 Area supported by each stay 76 5 Working pressure by rules 122 End plates in steam space: Material 8 Thickness 1/8 Pitch of stays 18 x 16 1/2 How are stays secured By nuts Working pressure by rules 115 Material of stays 8
 Area at smallest part 4 22 Area supported by each stay 294 Working pressure by rules 147 Material of Front plates at bottom 8
 Thickness 3/4 Material of Lower back plate 8 Thickness 3/4 Greatest pitch of stays 9 x 13 Working pressure of plate by rules 155
 Diameter of tubes 3 1/2 Pitch of tubes 4 1/2 x 4 1/2 Material of tube plates 8 Thickness: Front 3/4 Back 3/4 Mean pitch of stays 9 x 9
 Pitch across wide water spaces 14 Working pressures by rules 102 8 Girders to Chamber tops: Material 8 Depth and thickness of girder at centre 7 x 3/4 Length as per rule 2 1/6 Distance apart 9 1/2 Number and pitch of stays in each 3 @ 8 1/2
 Working pressure by rules 133 Steam dome: description of joint to shell Yes % of strength of joint Yes
 Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type _____ Date of Approval of Plan _____

Tested by Hydraulic Pressure to _____

Date of Test _____

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____

Diameter of Safety Valve _____

Pressure to which each is adjusted _____

Is Easing Gear fitted _____

Lloyd's Register
W653-0208
Foundation

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— 2 Lp. Two bottom end bolts, main bearing bolts, 1 set coupling bolts, 1 set piston rings, 1 set suction & delivery valves each for Feed Pump, Circulating Bridge Pump, Air Pump & Cargo Oil Bridge Pump. 10 Boiler Tubes, Amovels Bolts & Nuts, Iron of various sizes.

The foregoing is a correct description,

A. & J. INGLIS LIMITED.

Peter Walker, Intersurvey Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1920. Apr 30 May 7. 17. June 11. 16. July 5. 12. Aug 5. 6. 30. 31.
During erection on board vessel -- Sept. 1. 6. 9. 30. Oct. 4. 7. 18. 20. 22. 28 Nov. 1.
Total No. of visits 22

Is the approved plan of main boiler forwarded herewith ☒ With Report 40465
" " " donkey " " " "

Dates of Examination of principal parts—Cylinders 30'9"20 Slides 30'9"20 Covers 30'9"20 Pistons 30'9"20 Rods 30'9"20
Connecting rods 30'9"20 Crank shaft 31'8"20 Thrust shaft 31'8"20 Tunnel shafts ✓ Screw shaft 31'8"20 Propeller 6'8"20
Stern tube 4'10"20 Steam pipes tested 13'10"20 Engine and boiler seatings 1'9"20 Engines holding down bolts 20'10"20
Completion of pumping arrangements 1'11"20 Boilers fixed 20'10"20 Engines tried under steam 28'10" 31'11"20
Completion of fitting sea connections 6'9"20 Stern tube 6'9"20 Screw shaft and propeller 6'9"20
Main boiler safety valves adjusted 28'10"20 Thickness of adjusting washers Inward 1/2 Off 1/2
Material of Crank shaft S Identification Mark on Do. LLOYDS 3120 16D 31'8"20 Material of Thrust shaft S Identification Mark on Do. LLOYDS 3120 16D 31'8"20
Material of Tunnel shafts L Identification Marks on Do. L Material of Screw shafts S Identification Marks on Do. LLOYDS 3120 16D 31'8"20
Material of Steam Pipes Copper Test pressure 200 lbs.

Is an installation fitted for burning oil fuel yes 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 S. S. "Inveritchin"

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

The Engines & Boiler of this Vessel have been built under Special Survey, the workmanship and materials are good, they have been well fitted on board, tried under steam and found to work satisfactorily.

The Machinery is eligible, in my opinion, to be classed + LMC 11.20 with record of fitted for oil fuel 11.20 FP above 150°F

It is submitted that
this vessel is eligible for
THE RECORD. + LMC. 11.20
Fitted for Oil Fuel 11.20 FP above 150°F

Reft

10/11/20

PR

The amount of Entry Fee ... £ 1 : - :
Special ... £ 9 : 6 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, 8/11/20.
When received, 20-11-1920

Shd. Murray
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW - 9 NOV 1920

Assigned + LMC 11.20

Fitted for oil fuel 11.20 FP above 150°F



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Lloyd's Register Foundation

Glasgow

Certificate (if required) to be sent to...
The Surveyors are requested not to write on or below the space for Committee's Minute.
H.C.
6-11-20