

Rpt. 4.

REPORT ON MACHINERY.

No. 17955.

Date of writing Report 23 Jan 1922

When handed in at Local Office 28 Jan 1922

Received at London Office

WED FEB 8 1922

No. in Survey held at Greenock. S. S. Glasgow

Date, First Survey 25 Feb 1921

Last Survey 29 Jan 1922

Reg. Book.

on the Stad OlmanDavanger

(Number of Vistas 113)

Master

Built at S. S. GlasgowBy whom built W. Hamilton & Co

Gross 7102

Net 4434

When built 1922

Engines made at GreenockBy whom made John S. Kincaid & Co

when made 1922

Boilers made at GreenockBy whom made John S. Kincaid & Co

when made 1922

Registered Horse Power

Owners Westfal-Larsen & A/SPort belonging to Bergen

Nom. Horse Power as per Section 28 567

Is Refrigerating Machinery fitted for cargo purposes YesIs Electric Light fitted Yes

ENGINES, &c.—Description of Engines

Triplic CompoundNo. of Cylinders ThreeNo. of Cranks ThreeDia. of Cylinders 27-45-74 Length of Stroke 54 Revs. per minute 77Dia. of Screw shaft as per rule 15.17 Material of Steelthe 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

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

rers are fitted, is the shaft lapped or protected between the liners YesLength of stern bush 61Dia. of Tunnel shaft as per rule 13.91 Dia. of Crank shaft journals as per rule 14.62as fitted 14.4Dia. of Crank pin 14.4Size of Crank webs 22-9 1/2 Dia. of thrust shaft underllars 14 1/2 Dia. of screw 17.9 Pitch of Screw 16.6No. of Blades 4State whether moveable no Total surface 100 sq ftNo. of Feed pumps 2 Diameter of ditto 8 Stroke 21Can one be overhauled while the other is at work YesNo. of Bilge pumps 1 Diameter of ditto 4 1/2 Stroke 30Can one be overhauled while the other is at work YesNo. of Donkey Engines 1 Sizes of Pumps 11-10-5 1/2

No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room Three 3 1/2 1 1/2 3 1/2 3 1/2In Holds, &c. Scrubber in Bulk In BunkersNo. of Bilge Injections the sizes 10 Connected to condenser, or to circulating pump YesIs a separate Donkey Suction fitted in Engine room & size 7 1/2Are all the bilge suction pipes fitted with roses YesAre the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible YesAre all connections with the sea direct on the skin of the ship YesAre they Valves or Cocks bothAre they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates YesAre the Discharge Pipes above or below the deep water line aboveAre they each fitted with a Discharge Valve always accessible on the plating of the vessel YesAre the Blow Off Cocks fitted with a spigot and brass covering plate YesWhat pipes are carried through the bunkers YesHow are they protected YesAre all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times YesAre the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges YesIs the Screw Shaft Tunnel watertight YesIs it fitted with a watertight door Yesworked from YesBOILERS, &c.—(Letter for record S)Manufacturers of Steel S. S. T. & CoTotal Heating Surface of Boilers 8441Is Forced Draft fitted YesNo. and Description of Boilers Four Single EndedWorking Pressure 180 lbTested by hydraulic pressure to 320 lbDate of test 15/11/21No. of Certificate 1589-1590Can each boiler be worked separately YesArea of fire grate in each boiler 51.2 sq ft

No. and Description of Safety Valves to

each boiler One SpringArea of each valve 8.29 sq inPressure to which they are adjusted 185 lbAre they fitted with easing gear YesSmallest distance between boilers or uptakes and bunkers or woodwork 19Mean dia. of boilers 13.9Length 11.9Material of shell plates SteelThickness 1/8Range of tensile strength 28-32Are the shell plates welded or flanged YesDescrip. of riveting: seams all withLong. seams all with Diameter of rivet holes in long. seams 17/32Pitch of rivets 8 1/4Lap of plates or width of butt straps 17 1/2Per centages of strength of longitudinal joint rivets 87.2plate 85.95Working pressure of shell by rules 183 lbSize of manhole in shell 16 x 12Size of compensating ring Hanged 17 1/2No. and Description of Furnaces in each boiler 3 DeigninMaterial Steel Outside diameter 40.06Length of plain part topbottom 17 1/2Thickness of plates 17/32Description of longitudinal joint WeldedNo. of strengthening rings CoringWorking pressure of furnace by the rules 189 lbCombustion chamber plates: Material Steel Thickness: Sides 23/32Back 12/16Top 20/32Bottom 23/32Pitch of stays to ditto: Sides 8 1/2Back 8 1/2Top 10 1/2If stays are fitted with nuts or riveted heads WeldedWorking pressure by rules 183 lbMaterial of stays SteelArea at smallest part 1 1/2Area supported by each stay 65Working pressure by rules 193 lb End plates in steam space:Material Steel Thickness 1/8Pitch of stays 18How are stays secured all withWorking pressure by rules 181 lb Material of stays SteelArea at smallest part 27 1/2Area supported by each stay 3.73Working pressure by rules 183 lb Material of Front plates at bottom SteelThickness 17/16Material of Lower back plate SteelThickness 49/16Greatest pitch of stays 13 7/8Working pressure of plate by rules 186 lbDiameter of tubes 2 1/2Pitch of tubes 3 1/2Material of tube plates SteelThickness: Front 15/16Back 11/16Mean pitch of stays 9.18Pitch across wide water spaces 13 1/2Working pressures by rules 191 lbGirders to Chamber tops: Material Steel

Depth and

thickness of girder at centre 9 1/2Length as per rule 34.52Distance apart 10Number and pitch of stays in each Three 8 1/8Working pressure by rules 185 lb

Steam dome: description of joint to shell

% of strength of joint

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

W1351-0102

IS A DONKEY BOILER FITTED? *None*

If so, is a report now forwarded? —

SPARE GEAR. State the articles supplied:—Two Top End Colls. Two Bottom End Colls. Two main
bearing Colls. one set coupling Colls. one set Dead Pump Valves. one set Bridge
Pump Valves. one set Check Valves. one impeller and spindle for Circulating Pump
one Pair Top End Gears. one Pair Bottom End Gears. Four escape Valve Springs
Four Safety Valve Springs. one Expeller shaft. Expeller. Noth. Pist. R. one Eccentric
shaft complete one Valve spindle.

The foregoing is a correct description,
FOR JOHN G. KINCAID & COY., LIMITED.

Robert Green.

Manufacturer.

Dates of Survey while building	During progress of work in shops - -		During erection on board vessel - -		Total No. of visits
1921. Feb. 25. Mar. 1. 3. 4. 9. 11. 15. 22. 30. Apr. 4. 5. 8. 12. 15. 18. 26. 29. May. 2. 4. 6. 11. 13. 19. 24. 25. 26. 27. 30. June 2. 6. 7. 8. 9. 13. 14. 15. 21. 22. 26. 27. 29. July 14. 18. 20. 21. 25. 26. 27. 29. Aug. 2. 3. 9. 10. 12. 16. 17. 18. 23. 29. Sept. 1. 2. 5. 8. 9. 13. 16. 22. 23. 28. 30. Oct. 4. 5. 7. 10. 12. 14. 17. 18. 21. 25. 26. 28. 31. Nov. 1. 2. 4. 7. 8. 10. 14. 15. 17. 22. 23. 25. 30. Dec. 7. 12. 19. 20. 21. 27. 28. 29. (1922). Jan. 11. 13. 17. 19. 27. 28. 29.	113.				

Is the approved plan of main boiler forwarded herewith *yes* ✓

“ “ “ donkey “ “

Dates of Examination of principal parts—Cylinders	25/10/21	Slides	18/10/21	Covers	25/10/21	Pistons	25/10/21	Rods	25/10/21	
Connecting rods	21/7/21	Crank shaft	26/7/21	Thrust shaft	18/7/21	Tunnel shafts	✓	Screw shaft	28/7/21	
Propeller	9/9/21	Stern tube	31/10/21	Steam pipes tested	28/9/21	29/12/21	Engine and boiler seatings	22/11/21	Engines holding down bolts	12/12/21
Completion of pumping arrangements	13/1/22	Boilers fixed	13/1/22	Engines tried under steam	13/1/22	29/1/22	Completion of fitting sea connections	22/11/21	Stern tube	22/11/21
Screw shaft and propeller	22/11/21	Main boiler safety valves adjusted	13/1/22	Thickness of adjusting washers	F. P. 8 7/16" F. S. 8 7/16" A. P. 8 7/16" A. S. 7 1/2"	P. 1/2" S. 1/2"				

Material of Crank shaft *Steel* Identification Mark on Do. *618* Material of Thrust shaft *Steel* Identification Mark on Do. *618*
Material of Tunnel shafts *S* Identification Marks on Do. *✓* Material of Screw shafts *Steel* Identification Marks on Do. *618*

Material of Steam Pipes *main iron and copper* Test pressure *main box 60 and about 400 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 ☒ If so, state name of vessel ☒

General Remarks (State quality of workmanship, opinions as to class, &c. *Workmanship Good.*

The machinery and boilers of this Steamer have been constructed under special survey and placed on board in accordance with the Society's Rules. They are now in my opinion in safe working condition, and the case is respectfully submitted for the satisfaction of L.N.C. 1. 22 fitted for oil fuel, 1. 22 T.P. about 150' in the Register Book.

† L. M. C. - 1.22. F.D. C.L.

Y. Fitted for Oil Fuel, 1.22, F.P. above 150°F

22
9/2/22

The amount of Entry Fee	...	£	6 : 0	:	When applied for,
Special	...	£	100 : 7	:	26 / 1 / 1922.
Donkey Boiler Fee	...	£	:	:	When received,
Travelling Expenses (if any)	£	:	:	:	27 / 1 / 1922. JCH

James Innes
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW 7 FEB 1922

Assigned + LMC 122

MACHINERY DEPT.
WRITTEN. 8/2/22

filled for oil fuel 122. F.P. above 150° F.

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Lloyd's Register
Foundation