

## REPORT ON MACHINERY.

No. 29358

Date of writing Report 3<sup>rd</sup> June 1916 When handed in at Local Office 7-6-16 Port of Hull Received at London Office THU. - 8 JUN. 1916No. in Survey held at Hull Date, First Survey May 18/15 Last Survey 2<sup>nd</sup> June 1916Reg. Book. upt 22 on the steel screw trawler RISKATO (Number of Visits 47) Gross 228 Tons Net 108Master Beverley Built at Beverley By whom built Cook Wilton & Gemmell When built 1916-6Engines made at Hull By whom made C. D. Holmes & Co. Ltd (No 1144) when made 1916-6Boilers made at Hull By whom made C. D. Holmes & Co. Ltd (No 1158) when made 1916-6Registered Horse Power 80 Owners G. F. Haight Port belonging to GimseyNom. Horse Power as per Section 28 80 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yesENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders Three No. of Cranks 3Dia. of Cylinders 12 1/2" - 22" - 35" Length of Stroke 24 Revs. per minute as per rule 7.31 Dia. of Screw shaft as fitted 7 1/2" Material of screw shaft IronIs 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 tightin 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 partbetween the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive yes If twoliners are fitted, is the shaft lapped or protected between the liners yes Length of stern bush 35 1/2"Dia. of Tunnel shaft as per rule 6.6 Dia. of Crank shaft journals as per rule 6.93" Dia. of Crank pin 7" Size of Crank webs 13 1/2" x 4 1/2" Dia. of thrust shaft undercollars 7" Dia. of screw 8-9" Pitch of Screw 10-9" No. of Blades 4 State whether moveable no Total surface 29 sq ftNo. of Feed pumps one Diameter of ditto 2 1/2" Stroke 14 1/4" Can one be overhauled while the other is at work yesNo. of Bilge pumps one Diameter of ditto 2 1/2" Stroke 14 1/4" Can one be overhauled while the other is at work yesNo. of Donkey Engines two 2 1/2" dia Sizes of Pumps 5 1/2", 3 1/2" x 5 1/2" & 4 1/2" x 6 1/2" No. and size of Suctions connected to both Bilge and Donkey pumpsIn Engine Room Two 2" dia In Holds, &c. One 2" dia in each compartmentNo. of Bilge Injections one sizes 3 1/2" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size 2 1/2" diaAre 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 noAre all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks bothAre they fixed sufficiently high on the ship's side to be seen without lifting the stowhold plates yes Are 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 yes Are the Blow Off Cocks fitted with a spigot and brass covering plate yesWhat pipes are carried through the bunkers Forward Suctions How are they protected strong wooden casingsAre 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 yesDates of examination of completion of fitting of Sea Connections 17-8-15 of Stern Tube 17-8-15 Screw shaft and Propeller 17-8-15Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from yesOILERS, &c.—(Letter for record 5) Manufacturers of Steel Stewarts & LloydsTotal Heating Surface of Boilers 1402 Is Forced Draft fitted no No. and Description of Boilers one single endedWorking Pressure 195 Tested by hydraulic pressure to 390 Date of test 5-5-16 No. of Certificate 3137Can each boiler be worked separately yes Area of fire grate in each boiler 43.2 sq ft No. and Description of Safety Valves toeach boiler Two spring loaded Area of each valve 4.9 sq in Pressure to which they are adjusted 200 lbs Are they fitted with easing gear yesSmallest distance between boilers or plates and bunkers or woodwork 6" lagged Mean dia. of boilers 162" Length 10'-6" Material of shell plates steelThickness 1 3/16" Range of tensile strength 28-32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams doublemg. seams J.R.D.B.I. Diameter of rivet holes in long. seams 1 7/32" Pitch of rivets 8 7/16" Lap of plates or width of butt straps 16 9/16"Per centages of strength of longitudinal joint 86.8 Working pressure of shell by rules 197 Size of manhole in shell 16" x 12"Size of compensating ring 7" x 1 3/16" No. and Description of Furnaces in each boiler Three plain Material steel Outside diameter 40"Length of plain part top 76 3/4" Thickness of plates bottom 3 1/32" Description of longitudinal joint welded No. of strengthening rings yesWorking pressure of furnace by the rules 197 Combustion chamber plates: Material steel Thickness: Sides 1 1/16" Back 2 3/32" Top 1 1/16" Bottom 1 1/16"Pitch of stays to ditto: Sides 9 3/4" x 8" Back 9 1/2" x 8" Top 11" x 8" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 200Material of stays steel Diameter at smallest part 2.07" Area supported by each stay 89 sq in Working pressure by rules 209 End plates in steam spaceMaterial steel Thickness 1 7/32" Pitch of stays 18" x 18" How are stays secured XXIV Working pressure by rules 195 Material of stays steelDiameter at smallest part 6.33" Area supported by each stay 324 sq in Working pressure by rules 203 Material of Front plates at bottom steelThickness 7/8" Material of Lower back plate steel Thickness 3 1/32" Greatest pitch of stays 15" x 9 9/16" Working pressure of plate by rules 204Diameter of tubes 3 1/2" Pitch of tubes 4 3/4" Material of tube plates steel Thickness: Front 7/8" x 3/4" Back 7/8" Mean pitch of stays 9 1/2"Pitch across wide water spaces 15" Working pressures by rules 250 Girders to Chamber tops: Material steel Depth andthickness of girder at centre 10 3/4" x 1 3/4" Length as per rule 35.8" Distance apart 11" Number and pitch of stays in each Three 8"Working pressure by rules 197 Superheater or Steam chest; how connected to boiler yes Can the superheater be shut off and the boiler workedseparately yes Diameter yes Length yes Thickness of shell plates yes Material yes Description of longitudinal joint yes Diam. of rivetholes yes Pitch of rivets yes Working pressure of shell by rules yes Diameter of flue yes Material of flue plates yes Thickness yesstiffened with rings yes Distance between rings yes Working pressure by rules yes End plates: Thickness yes How stayed yesWorking pressure of end plates yes Area of safety valves to superheater yes Are they fitted with easing gear yes



IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

✓

SPARE GEAR.

State the articles supplied:-

Two top end bolts & nuts, two bottom end bolts & nuts, two main bearing bolts & nuts, one set of coupling bolts & nuts, one set of air feed bridge pump valves, one main & one donkey check valve, one safety valve spring, six gun ring bolts & nuts & a quantity of bolts & nuts & wire of various sizes ✓

The foregoing is a correct description,

P. PRO CHARLES D. HOLMES & CO. LTD.

S. Arthur Holmes DIRECTOR Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1915:- May 18. 21. June 2. 15. 21. 30. July 5. 12. 16. 20. 23. 26. 28.  
During erection on board vessel - - - Aug. 6. 10. 13. 17. 19. 1916:- Feb. 3. 7. 10. 22. 23. 29. Mar. 8. 10. 14. 21. 23.  
Total No. of visits 47 28. Apr. 3. 5. 6. 13. 17. 19. 20. 24 May 1. 2. 5. 19. 23. 24. 29. June 1. 2. 5. 19. 23. 24. 29. ✓  
Is the approved plan of main boiler forwarded herewith ✓

Dates of Examination of principal parts - Cylinders 28-3-16 Slides 5-5-16 Covers 5-5-16 Pistons 2-5-16 Rods 1-5-16  
Connecting rods 1-5-16 Crank shaft 27-4-16 Thrust shaft 2-5-16 Tunnel shafts ✓ Screw shaft 10-8-15 Propeller 10-8-15  
Stern tube 10-8-15 Steam pipes tested 23-5-16 Engine and boiler settings 17-8-15 Engines holding down bolts 19-5-16  
Completion of pumping arrangements 2-6-16 Boilers fixed 27-5-16 Engines tried under steam 2-6-16  
Main boiler safety valves adjusted 27-5-16 Thickness of adjusting washers 5 1/2, P 4 1/2.  
Material of Crank shaft Lin Identification Mark on Do. 1580 FLS Material of Thrust shaft Lin Identification Mark on Do. 7355 8 1/2  
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Lin Identification Marks on Do. 1509 FLS  
Material of Steam Pipes solid drawn copper ✓ Test pressure 40 lbs ✓  
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

Conco, Rigado, Recono

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 workmanship is good. The Boiler & steam pipes have been tested by hydraulic pressure as above & found sound & good. The machinery has been properly fitted & secured on board & on completion tried under steam under full working conditions & found satisfactory. The safety valves have been adjusted under steam & tested for accumulation which did not exceed 210 lbs.

In my opinion the vessel is eligible for the vessel + L.M.C. 6-16 ✓

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 6-16.

The amount of Entry Fee ... £ 1 : 0 :  
Special ... £ 12 : 0 :  
Donkey Boiler Fee ... £ ...  
Travelling Expenses (if any) £ 2 :  
When applied for, 7.6.1916  
When received, 29.6.1916

Committee's Minute

FRI. 9. JUN. 1916

Assigned

+ L.M.C. 6-16

Frank L. Sturges  
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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