

REPORT ON MACHINERY.

Port of WEST HARTLEPOOL

Received at London Office _____ 18__

No. in Survey held at West Hartlepool

Date, first Survey _____

Last Survey _____

26th April, 1897

(Number of Visits _____)

on the Steel S.S. "Annie"

Tons { Gross 3443.24
Net 2445.41
When built 1894

Master Richard Grable Built at West Hartlepool By whom built Furness & Co.

Engines made at Sunderland By whom made N. Allan & Co. Ltd. when made 1894

Boilers made at Sunderland By whom made N. Allan & Co. Ltd. when made 1894

Registered Horse Power _____ Owners J & Grange & Co. Port belonging to W. Hartlepool

Net Horse Power as per Section 28 299

Is Electric Light fitted No

Description of Engines		No. of Cylinders	No. of Cranks
Diameter of Cylinders	Length of Stroke	Revolutions per minute	Diameter of Screw shaft as per rule as fitted
Diameter of Tunnel shaft as per rule as fitted	Diameter of Crank shaft journals	Diameter of Crank pin	Size of Crank webs
Diameter of screw	Pitch of screw	No. of blades	State whether moveable
No. of Feed pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work
No. of Bilge pumps	Diameter of ditto	Stroke	Can one be overhauled while the other is at work
No. of Donkey Engines	Sizes of Pumps	No. and size of Suctions connected to both Bilge and Donkey pumps	
Engine Room	In Holds, &c.		
No. of bilge injections	sizes	Connected to condenser, or to circulating pump	Is a separate donkey suction fitted in Engine room & size
Are all the bilge suction pipes fitted with roses	Are the roses in Engine room always accessible	Are the sluices on Engine room bulkheads always accessible	
Are all connections with the sea direct on the skin of the ship	Are they Valves or Cocks		
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates	Are the discharge pipes above or below the deep water line		
Are they each fitted with a discharge valve always accessible on the plating of the vessel	Are the blow off cocks fitted with a spigot and brass covering plate		
How are pipes carried through the bunkers	How are they protected		
Are all pipes, cocks, valves, and pumps in connection with the machinery and all boiler mountings accessible at all times			
Are the bilge suction pipes, cocks, and valves arranged so as to prevent any communication between the sea and the bilges			
When were stern tube, propeller, screw shaft, and all connections examined in dry dock	Is the screw shaft tunnel watertight		
Is it fitted with a watertight door	worked from		

Description of Boilers		Working Pressure	Is forced draft fitted
Date of test	Can each boiler be worked separately	Area of fire grate in each boiler	No. and Description of safety valves to
Area of each valve	Pressure to which they are adjusted	Are they fitted	
Smallest distance between boilers or uptakes and bunkers or woodwork	Mean diameter of boilers		
Material of shell plates	Thickness	Description of riveting: circum. seams long. seams	
Diameter of rivet holes in long. seams	Pitch of rivets	Lap of plates or width of butt straps	
Percentages of strength of longitudinal joint	Working pressure of shell by rules	Size of manhole in shell	
No. and Description of Furnaces in each boiler	Material	Outside diameter	
Thickness of plates	Description of longitudinal joint	No. of strengthening rings	
Combustion chamber plates: Material	Thickness: Sides	Back	Top Bottom
Pitch of stays to ditto: Sides	Back	Top	If stays are fitted with nuts or riveted heads
Working pressure by rules			
Material of stays	Diameter at smallest part	Area supported by each stay	Working pressure by rules
End plates in steam space:			
Material	Thickness	Pitch of stays	How are stays secured
Working pressure by rules	Material of stays		
Diameter at smallest part	Area supported by each stay	Working pressure by rules	Material of Front plates at bottom
Thickness	Material of Lower back plate	Thickness	Greatest pitch of stays
Working pressure of plate by rules			
Diameter of tubes	Pitch of tubes	Material of tube plates	Thickness: Front Back
Mean pitch of stays			
Pitch across wide water spaces	Working pressures by rules	Girders to Chamber tops: Material	
Depth and			
Thickness of girder at centre	Length as per rule	Distance apart	Number and pitch of Stays in each
Working pressure by rules	Superheater or Steam chest; how connected to boiler		
Can the superheater be shut off and the boiler worked			
Material of Front plates at bottom	Diameter	Length	Thickness of shell plates
Description of longitudinal joint	Diam. of rivet		
Pitch of rivets	Working pressure of shell by rules	Diameter of flue	Material of flue plates
Thickness			
Stiffened with rings	Distance between rings	Working pressure by rules	End plates: Thickness
How stayed			
Working pressure of end plates	Area of safety valves to superheater	Are they fitted with easing gear	

HP1379-0176

DONKEY BOILER— Description *Vertical with four cross tubes.*
 Made at *Shepton* By whom made *Suaron & Co* When made *12/3/94* Where fixed *Stoke hold*
 Working pressure *80 lb.* tested by hydraulic pressure to *160 lb.* No. of Certificate *1450* Fire grate area *29 sq'* Description of safety valves *Spring air*
 No. of safety valves *2* Area of each *204 sq'* Pressure to which they are adjusted *85 lb.* If fitted with easing gear *Yes* If steam from main boilers enter the donkey boiler *no* Diameter of donkey boiler *7'-0"* Length *14'-0"* Material of shell plates *steel* Thickness *1/32"*
 Description of riveting long. seams *Lap. double riveted* Diameter of rivet holes *1 1/2"* Whether punched or drilled *drilled* Pitch of rivets *2"*
 Lap of plating *4 1/2"* Per centage of strength of joint Rivets *68.5* Thickness of shell crown plates *9/16"* Radius of do. *5'-9"* No. of Stays to do. *7*
 Dia. of stays. *1 1/2" off.* Diameter of furnace Top *5'-3"* Bottom *6'-4 1/2"* Length of furnace *6'-3"* Thickness of furnace plates *2 1/32"* Description of joint *lap* Thickness of furnace crown plates *5/8"* Stayed by *same as shell.* Working pressure of shell by rules *83*
 Working pressure of furnace by rules *83 lb.* Diameter of uptake *14 1/2"* Thickness of uptake plates *7/16"* Thickness of water tubes *3/8"*

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,
 Manufacturer.

Dates { During progress of work in shops -
 of Survey { During erection on board vessel - -
 while building { Total No. of visits

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

Certificate (if required) to be sent to

The amount of Entry Fee.	£	:	:	When applied for,
Special	£	:	:	18.
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any) £	:	:	:	18.

M. Smith
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping

Committee's Minute

TUES 4 MAY 1897

Assigned



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