

REPORT ON MACHINERY.

No. 13350

Port of West HartlepoolReceived at London Office 27 SEP 1907No. in Survey held at West Hartlepool Date, first Survey 13th March, 1904 Last Survey 19th Sept, 1907

Reg. Book.

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Master J. P. Thomas Built at West Hartlepool By whom built W. Gray & Co.Engines made at West Hartlepool By whom made Central Marine & Wk. when made 1907Boilers made at West Hartlepool By whom made Central Marine & Wk. when made 1907Registered Horse Power 316 Owners Wilson Shipping Co. Ltd. (Joseph J. Wilson & Co.) Port belonging to West HartlepoolIs Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted NoENGINES, &c.—Description of Engines Triple Compound No. of Cylinders Three No. of Cranks ThreeDia. of Cylinders 25 1/2" 40 1/2" 67" Length of Stroke 45 Revs. per minute 65 Dia. of Screw shaft 14 1/2" Material of Ironthe screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tightthe 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 twobearings are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 58"Dia. of Tunnel shaft 12 1/2" as per rule 12 1/2" Dia. of Crank shaft journals 13 1/4" as per rule 13 1/4" Dia. of Crank pin 13 1/4" Size of Crank webs 18 1/2" x 7 1/2" Dia. of thrust shaft underbearings 13 1/2" Dia. of screw 17 1/8" Pitch of Screw 15:9 No. of Blades 4 State whether moveable No Total surface 93 sq. ft.No. of Feed pumps Two Diameter of ditto 3 1/4" Stroke 28" Can one be overhauled while the other is at work YesNo. of Bilge pumps Two Diameter of ditto 4" Stroke 28" Can one be overhauled while the other is at work YesNo. of Donkey Engines Two Sizes of Pumps 4 x 6" & 12 x 10" No. and size of Suctions connected to both Bilge and Donkey pumpsEngine Room Three 3 1/2" In Holds, &c. One 3 1/2" Tunnel 3 1/2"No. of Bilge Injections One sizes 6 1/2" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size Yes 3 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 YesAre 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 stokehold plates Yes Are the Discharge Pipes above or below the deep water line YesAre 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 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 YesDates of examination of completion of fitting of Sea Connections 20/2/07 of Stern Tube 23/8/07 Screw shaft and Propeller 26/8/07Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Top StationMATERIALS, &c.—(Letter for record S) Manufacturers of Steel J. Spencer & SonsTotal Heating Surface of Boilers 4705 sq. ft. Is Forced Draft fitted Yes No. and Description of Boilers Two single endedWorking Pressure 180 lb. Tested by hydraulic pressure to 360 lb. Date of test 12/7/17 No. of Certificate 3115Can each boiler be worked separately Yes Area of fire grate in each boiler 58.5 sq. ft. No. and Description of Safety Valves toeach boiler Two Spring Area of each valve 8.29 sq. in. Pressure to which they are adjusted 185 lb. Are they fitted with easing gear YesSmallest distance between boilers or uptakes and bunkers or woodwork 17" Mean dia. of boilers 16.0" Length 10.6' Material of shell plates SteelThickness 1 1/2" Range of tensile strength 27 tons Are the shell plates welded or flanged Both Descrip. of riveting: cir. seams Yesg. seams Steel Diameter of rivet holes in long. seams 1 1/2" Pitch of rivets 9/8" Lap of plates or width of butt straps 20 1/2"Percentages of strength of longitudinal joint rivets 86.0% Working pressure of shell by rules 183 lb. Size of manhole in END 16" x 12"Type of compensating ring Flanged No. and Description of Furnaces in each boiler Three Brown Material Steel Outside diameter 45 7/8"Length of plain part top bottom 19 1/2" Thickness of plates 19 1/2" Description of longitudinal joint Welded No. of strengthening rings WeldedWorking pressure of furnace by the rules 189 lb. Combustion chamber plates: Material Steel Thickness: Sides 10/16" Back 10/16" Top 10/16" Bottom 14/16"Pitch of stays to ditto: Sides 8 1/4" x 8 1/4" Back 9 1/4" x 8" Top 8 1/4" x 8 1/4" If stays are fitted with nuts or riveted heads Both Working pressure by rules 180 lb.Material of stays Steel Diameter at smallest part 1 1/2" Area supported by each stay 9 1/4" x 8" Working pressure by rules 180 lb. End plates in steam space:Material Steel Thickness 1 1/2" Pitch of stays 22 1/4" x 19" How are stays secured Both Working pressure by rules 180 lb. Material of stays SteelDiameter at smallest part 3 1/2" Area supported by each stay 22 1/4" x 19" Working pressure by rules 180 lb. Material of Front plates at bottom SteelThickness 1" Material of Lower back plate Steel Thickness 15/16" Greatest pitch of stays 16" Working pressure of plate by rules 180 lb.Diameter of tubes 3 1/4" Pitch of tubes 4 1/2" Material of tube plates Steel Thickness: Front 1" Back 1 1/4" Mean pitch of stays 9"Pitch across wide water spaces 14 1/4" Working pressures by rules 189 lb. Girders to Chamber tops: Material Steel Depth andThickness of girder at centre 8 1/2" x 1 1/4" Length as per rule 28 5/8" Distance apart 8 1/2" Number and pitch of stays in each Two 8 1/4"Working pressure by rules 184 lb. Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler workedseparately Yes Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivetPitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates ThicknessStiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayedWorking pressure of end plates Area of safety valves to superheater Are they fitted with easing gearLloyd's Register
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