

# REPORT ON MACHINERY.

No. 4776  
 Received at London Office

When handed in at Local Office 26-1-1921 Port of MANCHESTER

Survey held at MANCHESTER Date, First Survey 16-12-20 Last Survey 21-1-1921

on the REPLACE PRIMARY SETS for D.R. GEAR of 2/3 "NASHLIGHT" (Number of Visits 3)

Tons { Gross  
 Net

Built at CHEPSTOW By whom built E. FINCH & CO. When built

Made at MANCHESTER By whom made BRITISH WESTINGHOUSE & M.C. L<sup>o</sup> when made 1919.

Made at HUDDERSFIELD By whom made DAVID BROWN & SONS. when made 1919.

Horse Power Owners Port belonging to

Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

THE ENGINES, &c.—Description of Engines RATEAU STEAM TURBINES No. of Turbines 2

Rotor Shaft Journals, H.P. L.P. Diameter of PRIMARY Pinion Shaft 3 3/4"

Journals 3 3/4" Distance between Centres of Bearings 22" Diameter of Pitch Circle 5.946"

Wheel Shaft 6 3/4" Distance between Centres of Bearings 48" Diameter of Pitch Circle of Wheel 56.392"

ce 10 3/4" Diameter of Thrust Shaft under Collars Diameter of Tunnel Shaft as per rule

Shafts Diameter of same as per rule Diameter of Propeller Pitch of Propeller

State whether Moveable Total Surface Diameter of Rotor Drum, H.P. L.P. Astern

Bottom of Groove, H.P. L.P. Astern Revs. per Minute at Full Power, Turbine Propeller

## DETAILS OF BLADING.

SECTION	H. P.			L. P.			ASTERN.		
	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.

of Feed pumps  
 of Bilge pumps  
 of Bilge suction in Engine Room  
 In Holds, &c.

Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine Room & size  
 Bilge suction pipes fitted with roses Are the roses in Engine room always accessible  
 Connections with the sea direct on the skin of the ship Are they Valves or Cocks  
 and 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  
 and 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  
 are carried through the bunkers How are they protected  
 Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times  
 Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges  
 Shaft Tunnel watertight Is it fitted with a watertight door worked from

Boilers, &c.—(Letter for record ) Manufacturers of Steel  
 Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers  
 Pressure Tested by hydraulic pressure to Date of test No. of Certificate  
 Boiler to 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 with easing gear  
 Distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates  
 Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams  
 Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps  
 Strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell  
 plates  
 Heating ring No. and Description of Furnaces in each Boiler Material Outside diameter  
 top  
 Part Thickness of plates crown Description of longitudinal joint No. of strengthening rings  
 bottom  
 Pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom  
 Stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules  
 Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space  
 Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays  
 at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom  
 Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules  
 of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays  
 Cross 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 Steam dome: description of joint to shell % of strength of joint Diameter  
 Thickness of shell plates Material Description of longitudinal joint Diameter of rivet holes Pitch of rivets  
 Working pressure of shell by rules Crown plates: Thickness How stayed

Roll  
 28/1/21  
 W498-266W  
 10101X



