

REPORT ON MACHINERY.

No. 34421

Received at London Office

WED. MAY 8 - 1918

Survey held at Glasgow Date, First Survey 15th May, 1918 Last Survey 25th April 1918
 on the S.S. "War Prophet" (Number of Vests 37)

Built at Glasgow By whom built C. Cornell & Co (386) Tons { Gross
 Net

Made at Glasgow By whom made D. Rowan & Co (685) when made 1918
 Made at Glasgow By whom made D. Rowan & Co (687) when made 1918

Horse Power 490 Owners Anglo Siam Petroleum Co. Port belonging to
 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ES, & Co. — Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3
 Length of Stroke 48 Revs. per minute 80 Dia. of Screw shaft 14 1/2 Material of screw shaft iron

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
 Propeller boss yes If the liner is in more than one length are the joints burned length If the liner does not fit tightly at the part

the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive yes If two
 are fitted, is the shaft lapped or protected between the liners yes Length of stern bush 5'-0 1/2"

Tunnel shaft as per rule 17/17 13.33 Dia. of Crank shaft journals as per rule 13.99 14.00 Dia. of Crank pin 14 1/2 Size of Crank webs other Dia. of thrust shaft under
4 3/4 Dia. of screw 17-6 Pitch of Screw 16 1/2 No. of Blades 4 State whether moveable no Total surface 100-6 1/2

Feed pumps 2 Diameter of ditto 4" Stroke 24" Can one be overhauled while the other is at work yes
 Bilge pumps 2 Diameter of ditto 4" Stroke 24" Can one be overhauled while the other is at work yes

Donkey Engines 3 Sizes of Pumps 10 1/2 x 14 x 24 No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room (4) 3 1/2" In Holds, &c. Pump room (2) 3" Reserve Pumps (2) 3 1/2"

Bilge Injections 1 size 8" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size yes 3 1/2"
 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 yes

connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both
 Are 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 below

Are 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 yes
 pipes are carried through the bunkers oil suction pipes How are they protected iron casings

All Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes
 the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes

of examination of completion of fitting of Sea Connections 27/3/18 of Stern Tube 27/3/18 Screw shaft and Propeller 27/3/18
 Screw Shaft Tunnel watertight yes Is it fitted with a watertight door no worked from yes

ERS, & Co. — (Letter for record (5) Manufacturers of Steel David Colville Sons Limited

Heating Surface Boilers 7000 1/2 Is Forced Draft fitted yes No. and Description of Boilers 3 Single ended
 Working Pressure 180 Tested by hydraulic pressure to 360 Date of test 18/12/17 No. of Certificate 14032

each boiler be worked separately yes Area of fire grate in each boiler 63.37 No. and Description of Safety Valves to
 boiler 1 pair direct spring Area of each valve 9.63 Pressure to which they are adjusted 180 Are they fitted with easing gear yes

least distance between boilers or uptakes and bunkers or woodwork about 2'-0" Mean dia. of boilers 15'-6" Length 11'-6" Material of shell plates steel
 thickness 1 1/4" Range of tensile strength 28 to 33 Are the shell plates welded or flanged no Descrip. of riveting: cir. seams lap double

seams butt tubular Diameter of rivet holes in long. seams 1 5/16 Pitch of rivets 9.125 Lap of plates or width of butt straps 19 1/2"
 percentages of strength of longitudinal joint 88.3 Working pressure of shell by rules 180 Size of manhole in shell 16 x 12"

of compensating ring plate flange No. and Description of Furnaces in each boiler 3 Deighton Material steel Outside diameter 50 3/16"
 length of plain part top 19" Thickness of plates bottom 32 Description of longitudinal joint welded No. of strengthening rings 4

Working pressure of furnace by the rules 202 Combustion chamber plates: Material steel Thickness: Sides 25" Back 16" Top 23" Bottom 32"
 thickness of stays to ditto: Sides 9 1/4 x 10 1/8 Back 10 x 9 Top 9 1/4 x 10 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 188

Material of stays steel Diameter at smallest part 2.07 Area supported by each stay 97" Working pressure by rules 193 End plates in steam space:
 Material steel Thickness 1 1/2" Pitch of stays 21 3/4 x 20 1/2 How are stays secured nuts Working pressure by rules 182 Material of stays steel

Diameter at smallest part 8.29 Area supported by each stay 44.5 Working pressure by rules 198 Material of Front plates at bottom steel
 thickness 31" Material of Lower back plate steel Thickness 22" Greatest pitch of stays 13 3/8" Working pressure of plate by rules 207

Diameter of tubes 3 Pitch of tubes 4 1/2 x 4 1/4 Material of tube plates steel Thickness: Front 31" Back 3" Mean pitch of stays 10 1/2"
 pitch across wide water spaces 13 3/8" Working pressures by rules 181 Girders to Chamber tops: Material steel Depth and

thickness of girder at centre 11 1/2 x 8" Length as per rule 38 7/16 Distance apart 10" Number and pitch of stays in each (3) 9 1/4"
 Working pressure by rules 189 Superheater or Steam chest; how connected to boiler none Can the superheater be shut off and the boiler worked

separately yes Diameter 18" Length 18" Thickness of shell plates 31" Material steel Description of longitudinal joint 2020 Diam. of rivet
 holes 1 1/2" Pitch of rivets 9" Working pressure of shell by rules 181 Diameter of flue 18" Material of flue plates steel Thickness 31"

stiffened with rings yes Distance between rings 18" Working pressure by rules 181 End plates: Thickness 31" How stayed yes
 Working pressure of end plates 189 Area of safety valves to superheater 181 Are they fitted with easing gear yes

If so, is a report now forwarded?

The foregoing is a correct description,

Manufacturer.

Is the approved plan of main boiler forwarded herewith Yes

" " " donkey " "

Test pressure 540 lbs

Is the flash point of the oil to be used over 150°F. yes ✓

If so, state name of vessel S.S. War Expend.

It is submitted that

Fitted for oil fuel 4.18. F.P. above 150°F

A. McKend + Alex. H. Copeman
Engineer Surveyor, to Lloyd's Register of British & Foreign Shipping

Assigned to LMC 4 IR

WRITTEN 8th

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Foundation