

Report of Survey for Repairs, &c., of Engines and Boilers.

(Received at London Office)

AUG -5 1940

Survey held at Cardiff Date, First Survey 26<sup>th</sup> June Last Survey 2<sup>nd</sup> Aug. 1940

on the Machinery of the Wood, Iron or Steel Screw "Empire Volunteer" ex "Proceda"

Vessel built at Victoria, B.C. By whom Harbour Marine Ltd. When 1921. 3.

Engines made at Toronto. By whom J. Inglis & Co. Ltd. When 1921.

Boilers, when made (Main) 1921. (Donkey) ✓

Owners Ministry of Shipping Owners' Address (if not already recorded in Appendix to Register Book.)

Managers J. Long & Sons, Ltd. Port London Voyage

If Surveyed Afloat or in Dry Dock (State name of Dock.) Roath & Co. Ltd.

Particulars of Classification (which must be inserted precisely as in Register Book & Supplements).

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Port of Bardiff.Steel Screw "Empire Volunteer" ex "Procida."

M.P. cylinder (piston not opened up) and H.P. and M.P. valves and valve chests examined. Winding cylinders now renewed, intermediate shaft (found slightly bent) faired, and H.P. and M.P. valve chest skinned and valve rings renewed.

The machinery has been generally examined at this time and found in apparent good order.

Now done, Boiler Survey: All main boilers examined throughout, and now considered satisfactory for a working pressure of 180 lbs./sq. in. and their safety valves adjusted under steam to this pressure. The centre boiler furnaces were found slightly distorted, and a compensation ring has been previously fitted to the top half of the centre furnace; furnaces considered efficient.

On examining the boilers under steam, a slight leak was observed from the centre boiler drain plug, and as the vessel was on the point of sailing, it has been arranged with the Owners' representative that this plug will be removed and renewed, or rejointed as found necessary, on the vessel's arrival at her loading port, under the supervision of the local Surveyors.

Repairs at anchor now carried out.

Port Boiler: - 7 stay tubes renewed, (5 of these found fitted stoppers). 5 cc. screw stays and 10 cc. wrapper plate screw stays renewed.

Centre Boiler: - 3 cc. screw stays renewed.

Starboard Boiler: - 10 stay tubes (5 found fitted stoppers) renewed. 4 cc. back screw stays and 3 wrapper plate screw stays renewed.

Back flange of centre furnace partly re-riveted.

Surface grooving at starboard furnace gasholder neck built up with electric welding, and starboard low manhole flanging built up and door refitted.

A number of plain tubes in Port and Starboard boilers expanded.

YKH.