

W242-0023

S.S. "EMPIRE MOORHEN"

Hull. 52258.

Lth. 21105

Gls. 67949

The first reduction gearing was renewed at Mauritius in June last.

On account of some wear on the new gears, surveys were subsequently held at Colombo, Madras and Aden. No repairs were effected at Colombo and Aden, but the Madras Surveyor reported that the worn teeth of the pinions were "carefully dressed up by the ship's staff" and a further inspection on arrival in the U.K. was recommended.

The Hull Surveyors now report that the 1st reduction pinion and 1st wheel shew appreciable wear on the teeth which is abnormal for the length of time since the gears were renewed. The load was apparently not equally distributed on the gear teeth and this may be due to an error in the gear cutting. The alignment may not be quite perfect. The teeth were dressed by filing.

Subsequently another survey was called at Leith, and Mr. Sneddon, who attended the survey at Hull, went to Leith to consult with the local Surveyors on the case. He found that the load distribution on the teeth was more uniform than when the gearing first came under his inspection at Hull. *

The Surveyors at Hull ^{Glasgow} and Leith are of the opinion that the gearing is satisfactory for the voyage to U.S.A. and recommend that on arrival there, within three months, the 1st reduction pinion and wheels be renewed and the remainder of the gearing and the turbine bearings be specially examined and the alignment checked.

* A marked improvement in this respect was found at a later survey at Oban where the oil which was found dirty & full of grit & of low viscosity, was changed.

Teeth turned over especially on the forward nose where the oil had been taken.