

COPY.

Lloyd's Register of Shipping.

RETAIN



Port Baltimore, Maryland

5th September, 1940

This is to Certify that

C. Haslie

the undersigned Surveyor to this Society did at the request of
Owners' Representative survey the Steel Single Screw Steamship

"EMMAREIN"

5436 tons gross register of Rotterdam

in respect to steering gear, the vessel stated to have experienced severe weather August 6th, 1940 and subsequent dates enroute Hull, England to Baltimore, Md. U.S.A.

For further particulars please refer to
Official Log Book.

On the 26th day of August, 1940 and subsequent dates with vessel lying afloat loading cargo at West Side Piers, Port Covington, also Curtis Bay, Baltimore, Maryland, the undersigned made examination and FOUND:

The steering engine temporarily refastened and secured on foundation due to breaking of foundation bolts and the bolts to pinion housing.

The crankshaft of engine slack, two bearing brasses scored and out, the lignum vitas bearing at rudder head stock also brake block loosened and broken.

Telemotor brass head sleeve and nut stripped and cylinder gland leaking, the gear rack teeth at face of rudder quadrant worn and considerable clearance in the engaging engine drive pinion.

Rudder top locking pintle very slack and bushing badly abraded.

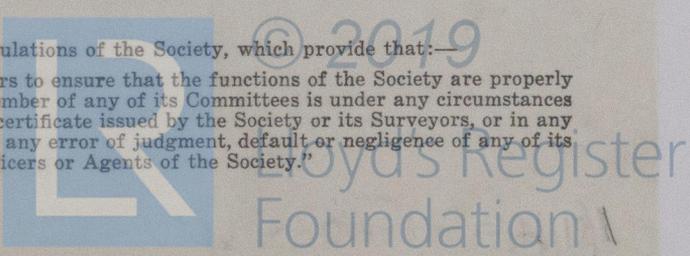
HOW DONE

All foundation bolts in steering engine and the bolts for pinion housing etc. removed and replaced by new, the pinion housing removed,

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machined, new liners fitted and all efficiently secured.

The crankshaft removed, new bearing brasses cast machined, shaft, bedded refitted, adjusted and all slackness removed.

The lignum vitae from rudder head stock bearing removed and renewed together with lignum vitae of brake block.

The forward brass sleeve guide and nut at aft end of tele-motor gear removed, a new brass unit supplied and fitted, the guide re-bushed.

The end segments of gear rack at face of main quadrant and those in centre of quadrant changed about to make better contact with the special drive pinion and take up slack.

This effect consequent to new segments and pinion assembly not being obtainable under a period of weeks.

The rudder top locking pintle removed, renewed with bushing, all palm bolts tested and set up.

The steering gear tried out under steam and functioning satisfactorily.

FEE \$ 50.00
EXPS \$ 8.00
Early fee - \$ 10.00

(Signed) C. Hestie
Surveyor to Lloyd's Register of Shipping

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