

Report of Survey for Repairs of Engines and Boilers.

304

Survey held at *New York* Date, first Survey *Dec 13/81* Last Survey *July 30 1882*

on the Machinery of the *S.S. "Nederland"* (Number of Visits *1*)

Gross *2839* Built at *Newcastle* When built *1873*

Net *1719* Owners *See Anon & Co* Port belonging to *Antwerp*

of Cylinder *110" x 86"* Engines made by *Palmer & Co* When made *1873*

Stroke *42"* Boilers made by *See Anon & Co* When made *1873*

of Steam *15 ft* ☒ Surveyed Afloat ☐ in Dry Dock (State name of Dock.)

ed Horse Power *290* Classified *100A1*

Survey No. *188* Port *Antwerp*

Particulars of Repairs and Examination

Dec 13th 1881 Inspected this ship and found in the main, and in the fore journals, of the after section of crank shaft, what appeared to be flaws or fractures running longitudinally. A proper examination could not be made with reference to its safety. It was taken out, and replaced by the spare one, and a thorough survey was made, when the old one was exposed to slight on the wharf, where a circumferential fracture was found, the after part of crank pin extending fully one fourth of the journal's circumference of such a nature as to leave no doubt of its unsuitability for further use independently of the objections found by the longitudinal ones before named, in both main, and after crank pin journals. The ballast pump steam cylinder was badly broken, the head of it broken. Piston rod broken, with these several other parts broken water cylinder valve bridges, and valves much damaged beyond repair. Piston rod broken, and the adjoining parts damaged. Recommended a new steam pump of similar capacity acceptable make. This recommendation was carried out, and the connection properly restored. The main boiler covering was destroyed the rear coming down the fore hatch, and much of the iron work d, and rusted, and injured by sea water. Recommended to clean, and well repaint the iron work, and use the boiler. This at my last visit was carried out.

General Observations, Opinion, and Recommendation:—

Registering Fee... £ : :
 (per Section 28) ... £ : :
 License (if required) ... £ : :
 sent as per margin.
 (if any, £)

received by me, *188*

See's Minute

Assigned

188

Herman Winter
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



Report of Survey for Repairs of Engines and Boilers

Cylinder casings and coverings having been damaged by the seas coming down the engine hatch. Recommended this to be properly refitted, and secured in order to restore the same to a proper condition. This was carried out.

The circulating water discharge pipe from condenser was damaged. Recommended the defective part to be replaced with new of suitable strength of copper, this was properly carried out.

The crinches, and their steam and exhaust pipes were damaged in various places including the pipe coverings parts of, which were washed away, all of which I recommended to be restored to a proper condition, which was carried out.

Centrifugal gear damaged. Steam gauge pipes. Bilge pipes damaged, and choked. Whistle pipe, brace and gear damaged by the force of the seas.

Recommended they be restored, which was done.

Examined the screw stem bearing & a while in Dry Dock, found all in good order. All sea valves were examined and found good. Had new funnel, and ventilator. Four hundred new tubes. Two new tube sheets. Two new plates in combustion chamber. One new crown sheet. Superheater repaired.

Hereward Winter

The Machinery of this vessel has been examined and repaired. owing to damage received. Submitted that she is eligible to remain in service.

W 2.3.82