

19758 Iron.

# LLOYD'S REGISTER OF BRITISH AND FOREIGN SHIPPING.

## ENGINEER SURVEYOR'S REPORT ON MACHINERY.

### ENGINES.

*Rev 6/12/77*

Report (if any) on Hull & Vessel. Port No. 2442

Description *Compound Inverted*  
 Made by *North Eastern Marine Eng. Co Ltd*  
 When *Nov 18 77* At *Sunderland*  
 Diameter of cylinders *35 & 63* Length of stroke *36*  
 No. of revolutions per minute *60*  
 Point of cut off *7/8th*  
 Diameter of screw shaft *10 3/4*  
 Diameter of crank shaft journals *10 3/4*  
 Diameter of screw, ~~or of paddle wheel~~ *15.0*  
 Pitch of screw *15.0*  
 No. of blades, *4* Total surface *72 sq ft*  
 No. of bilge pumps *2* and sizes  
 Do they pump from each compartment *aft well, fore hold & 2 bilge*

Are all the bilge suction pipes fitted with roses *yes*  
 No. of feed pumps *2* and sizes *3 1/2 x 3 1/2*  
 What gauges are there attached to the engines and boilers ... *1 Steam to each boiler in S.H. 1 Steam 1 Vac in Eng Room*  
 Description and size of Donkey Pumps ... *(1) S.A. 6 x 9" (2) S.A. 4 x 6"*  
 Where do they pump from ... *(Both pump from tanks, Condenser, sea, and same as bilge pump)*  
 No. of bilge injections *1* and sizes *4"*  
 Are they connected to air, or circulating pumps *Circulating*  
 Is there a hand pump in the engine room *no*  
 Can it be worked by the main engines  
 Is there a deck hose of sufficient length to reach to any part of the vessel *yes*

### MAIN BOILERS.

Number *Two* Description *Cylindrical*  
 Made by *North Eastern Marine Eng Co*  
 When *Nov. 18 77* At *Sunderland*  
 Working pressure *70 lb*  
 Tested by hydraulic pressure to *140 lb*, Date *19/9/77*  
 Description of super-heating apparatus *none*  
 Can each boiler be worked separately *yes*

Can the super-heater be shut off and the boilers worked separately  
 Description and area of safety valves on each boiler ... *2 Adams, 4 1/4 dia.*  
 No. of square feet of fire-grate surface in each boiler *49 1/2 sq feet.*  
 Are there separate blow off and brine cocks on each boiler, independent of those on the vessel's skin *yes*  
 Are all pipes, cocks, roses, and pumps in connection with the machinery accessible at all times. .... *except one in fore hold*

### DONKEY BOILER.

Description *Vertical 3 cross tubes*  
 Where fixed *Stokehold.*  
 Working pressure *50 lbs.*

Tested by hydraulic pressure to *100 lb.*, Date *20/9/77*  
 Description and area of safety valves *1 Dead weight 3 1/4 dia*  
 No. of square feet of fire grate *14 sq feet.*

### PIPES, COCKS, AND CONNECTIONS.

Are all connections with the sea direct on the skin of the ship *yes*  
 Are they Kingston valves or common cocks ... *2 Values, rest cocks*  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stoke hold plates ..... *yes*  
 Are the discharge pipes above or below the deep water line *below*  
 Are they each fitted with a discharge valve on the plating of the vessel *yes*

What pipes are carried through the bunkers *none*  
 How are they protected  
 When were the stern tube, propeller, screw shaft, and all connections examined in dry dock *new*  
 Are the pipes, cocks, and valves arranged so as to prevent an unintentional connection between the sea and the bilge *yes*  
 Is the screw shaft-tunnel water tight and fitted with a sluice door on bulkhead *yes*

*W. & A. R. Eng. Co Ltd* Manufacturers of Main Engines & Boilers

Safety valves ease *70 lb* acc to *71"* close *68"*

We hereby certify that the whole of the above are correct particulars of the Machinery and Boilers of the Iron (or Wood) Screw (or Paddle) Steam Vessel *"Leviramide"* owned by *M. H. P. Jolly* of the Port of *Newcastle* of *1164.66* Tons Register, and *16 5/8* Registered Horse Power, and that they have been carefully inspected and examined by *us* at *Newcastle & Sunderland* and found to be at this date, viz., *November 22<sup>nd</sup> 18 77* in good order and safe working condition.

Amount of Fee for Survey ... £ *8 : 5 : 0* Paid by *us*  
 (Travelling Expenses, if any, £ *1.1.0*)  
*4/12/77*

*George W. Mansel & James Milton*  
 Engineer Surveyors to Lloyd's Register of Shipping.

*North Shields*  
 Lloyd's Register Foundation