

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

22 OCT 1945

Date of writing Report 6-1940 When handed in at Local Office 19 Port of Rotterdam  
 To. in Survey held at Schiedam Date, First Survey ? Last Survey 24-4-1940  
 Reg. Book. on the 5/ STAD ALKMAAR (Number of Visits last) Tons 5750 Gross 5750 Net  
 Built at Schiedam By whom built N.V. Wilton-Typhoon Yard No. 669 When built 1940  
 Engines made at Amsterdam By whom made N.V. Werkspoor Engine No. ? When made 1940  
 Boilers made at do. By whom made do. Boiler No. 2078/2/80 When made 1940  
 Registered Horse Power IHP 2700 Owners Haleyon Lijn N.V. Port belonging to Rotterdam  
 Net Horse Power as per Rule 510 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted Yes  
 Name of Vessel for which Vessel is intended ?

**ENGINES, &c.**—Description of Engines Triple expansion Sea Amsterdam exp. N. 15909 Revs. per minute 74  
 No. of Cylinders 3 Length of Stroke ? No. of Cranks 3  
 Crank shaft, dia. of journals as per Rule Crank pin dia. ? Crank webs ? Mid. length breadth ? Thickness parallel to axis ?  
 as fitted ? Mid. length thickness ? shrunk ? Thickness around eye-hole ?  
 Intermediate Shafts, diameter as per Rule Thrust shaft, diameter at collars as per Rule  
 as fitted ? as fitted ?

Propeller Shafts, diameter as per Rule Screw Shaft, diameter as per Rule Is the tube shaft fitted with a continuous liner ?  
 as fitted ? as fitted ? as fitted ?  
 Liners, thickness in way of bushes as per Rule Thickness between bushes as per Rule Is the after end of the liner made watertight in the  
 as fitted ? as fitted ? as fitted ? If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner ?

Does the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive ?  
 If two liners are fitted, is the shaft lapped or protected between the liners ? Is an approved Oil Gland or other appliance fitted at the after end of the tube ?  
 If so, state type ? Length of Bearing in Stern Bush next to and supporting propeller 16 1/2"

Propeller, dia. 5700 mm Pitch 5050/2860 No. of Blades 4 Material Stange whether Moveable Solid Total Developed Surface 118.4 sq. feet  
 Main Engines, No. 2 Diameter 110 mm Stroke 650 mm Can one be overhauled while the other is at work Yes  
 Auxiliary Engines, No. 2 Diameter 110 mm Stroke 650 mm Can one be overhauled while the other is at work Yes  
 Pumps connected to the Main Bilge Line (No. and size 2. 12" x 10" x 12" How driven Steam driven)

Oil Pumps, No. and size 2. 12" x 10" x 12" Lubricating Oil Pumps, including Spare Pump, No. and size ?  
 Are two independent means arranged for circulating water through the Oil Cooler ? Suctions, connected to both Main Bilge Pumps and Auxiliary  
 Oil Pumps;—In Engine and Boiler Room 2 x 3" - 2 x 5" on a 2 1/2"  
 Pump Room tunnel 1 x 3" - 1 x 2 1/2" In Holds, &c. N. 1. 2 x 3" - N. 2. 2 x 3" - N. 3. 2 x 3"  
N. 4. 2 x 3" - N. 5. 2 x 3" - Deck tank 2 x 3"

Water Circulating Pump Direct Bilge Suctions, No. and size 1 x 9" Independent Power Pump Direct Suctions to the Engine Room Bilges,  
 and size 2 x 5" Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes  
 Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes

All Sea Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks both  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Overboard Discharges above or below the deep water line above  
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes  
 How are they protected ?  
 Are pipes pass through the deep tanks ? Have they been tested as per Rule ?

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes  
 Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one  
 compartment to another Yes Is the Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from 1st flat deck

**IN BOILERS, &c.**—(Letter for record ?) Total Heating Surface of Boilers 4200 ft<sup>2</sup>  
 Forced Draft fitted Yes No. and Description of Boilers 3 single ended mult. boiler Working Pressure 14 kg.  
 A REPORT ON MAIN BOILERS NOW FORWARDED? Yes Amsterdam  
 A DONKEY BOILER FITTED? no If so, is a report now forwarded? ?  
 Is the donkey boiler intended to be used for domestic purposes only ?

Are approved plans forwarded herewith for Shafting ? Main Boilers ? Auxiliary Boilers ? Donkey Boilers ?  
 (If not state date of approval)  
 Superheaters ? General Pumping Arrangements 3-4-33 Oil fuel Burning Piping Arrangements ?

## SPARE GEAR.

Is the spare gear required by the Rules been supplied Yes  
 What is the principal additional spare gear supplied screw shaft, propeller, crankshaft, pistons etc.

The foregoing is a correct description.

Manufacturer.



W290-0022

During progress of work in shops - - 1  
 ?  
 Dates of Survey while building  
 During erection on board vessel - - - ?  
 ?  
 Total No. of visits - All notes lost by fire -

Dates of Examination of principal parts—Cylinders ✓ Slides ✓ Covers ✓  
 Pistons ✓ Piston Rods ✓ Connecting rods ✓  
 Crank shaft ✓ Thrust shaft ✓ Intermediate shafts ✓  
 Tube shaft ✓ Screw shaft ✓ Propeller ✓  
 Stern tube 26 Sept '39 Engine and boiler seatings Engines holding down bolts 18 March '40

Completion of fitting sea connections 26 Sept '39  
 Completion of pumping arrangements + March '40 Boilers fixed + Feb '40 Engines tried under steam 24-4-40  
 Main boiler safety valves adjusted + 25 March '40 Thickness of adjusting washers P.B. no 3-18 1/2 m C.P. no 2-16 m S.B. no 6-16 m

Crank shaft material ✓ Identification Mark ✓ Thrust shaft material ✓ Identification Mark ✓  
 Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark ✓  
 Screw shaft, material ✓ Identification Mark ✓ Steam Pipes, material S.M. steel Test pressure 40 kg Date of Test - March

Is an installation fitted for burning oil fuel coal burning. Is the flash point of the oil to be used over 150°F. ✓  
 Have the requirements of the Rules for the use of oil as fuel been complied with ✓  
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo ✓ If so, have the requirements of the Rules been complied with ✓  
 If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with Yes  
 Is this machinery duplicate of a previous case no If so, state name of vessel ✓

**General Remarks** (State quality of workmanship, opinions as to class, &c. This machinery and boilers have been made and fitted in accordance with the approved plans, Society's Rules and Secretarial letters. Material tested as required. The whole machinery has been tried under full working condition during a trial trip and was found all in good order. I am of opinion that the machinery is eligible to be recorded in the Society's Register with T L M C. 4-40. C.T.

Certificate to be sent to... The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee ... £	:	:	When applied for,
Special ...	£	228.00	22/5 19/40
Donkey Boiler Fee ...	£	:	When received,
Travelling Expenses (if any) £	:	50.00	19

O.H. Brouse  
 Engineer Surveyor to Lloyd's Register of Shipping.

FRI. 11 JAN 1946

Committee's Minute  
 Assigned See minute on file.



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