

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 19.11.24.

Date of writing Report 31st Oct 1924 When handed in at Local Office 19 Port of HAMBURG

No. in Survey held at KIEL Date, First Survey 22nd July Last Survey 11th Oct. 1924
 Reg. Book. on the Steel S.S. "VENEDIA" (Number of Visits 17) Tons Gross 1150
Net 627

Built at KIEL By whom built HOWALDTSWERKE Yard No. 642 When built 1924

Engines made at KIEL By whom made HOWALDTSWERKE Engine No. when made 1924

Boilers made at KIEL By whom made HOWALDTSWERKE Boiler No. 1395 when made 1924

Registered Horse Power Owners F/S DAMPEKIBSELSKABET D.F.K. Port belonging to COPENHAGEN

Nom. Horse Power as per Rule 113 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines One tripe expansion reciprocating engine.

Dia. of Cylinders 14 3/4" 24" 32" Length of Stroke 25 1/2" 650 mm Revs. per minute 130 No. of Cylinders 3 No. of Cranks 3

Dia. of Crank shaft journals as per rule 194 mm Dia. of Crank pin 210 mm Crank webs Mid. length breadth 303 mm Thickness parallel to axis 130 mm
 as fitted 200 mm Mid. length thickness 130 mm Thickness around eye-hole 84-87.5 mm

Diameter of Thrust shaft under collars as per rule 194 mm Diameter of Tunnel shaft as per rule 184.9 mm Diameter of Screw shaft as per rule 206.6 mm Is the Screw shaft as fitted 215 mm
 as fitted 200 mm as fitted 185 mm as fitted 215 mm Is the Screw shaft fitted with a continuous liner the whole length of the stern tube yes Is the after end of the liner made watertight in the propeller boss yes

If the liner is in more than one length are the joints burned no If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with plastic material insoluble in water and non-corrosive no

If two liners are fitted, is the shaft lapped or protected between the liners no Is an approved appliance fitted at the after end of the shaft to permit of it being efficiently lubricated no

Pitch of Propeller 2380 mm No. of Blades 4 State whether Moveable no Total Surface 33.69 square feet

No. of Feed Pumps fitted to the Main Engines 2 Diameter of ditto 54 mm Stroke 350 mm Can one be overhauled while the other is at work yes

No. of Bilge Pumps fitted to the Main Engines 2 Diameter of ditto 60 mm Stroke 350 mm Can one be overhauled while the other is at work yes

Total number and size of power driven Feed and Bilge Auxiliary Pumps 2. 1 for feed: 180x120x150 mm. for bilge also fallst pump

No. and size of Pumps connected to the Main Bilge Line 2 - 190x230x300 mm. duplex. - 180x120x150 mm. duplex.

No. and size of Ballast Pumps 1 Dept. 190x230x300 mm No. and size of Lubricating Oil Pumps, including Spare Pump no

Are two independent means arranged for circulating water through the Oil Cooler no No. and size of suction connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 3 each of 50 mm, 3 each of 60 mm, 2 each of 80 mm and in Holds, &c. 3 each of 70 mm, 2 each of 60 mm

From hold: 2 each of 70 mm, - from tanks: 6 of 80 mm, 2 of 60 mm, from after peak 1 of 60 mm

No. and size of Main Water Circulating Pump Bilge Suctions 1 - 100 mm No. and size of Donkey Pump Direct Suctions to the Engine Room Bilges 1 of 80 mm Are all the Bilge Suction Pipes in holds and tanks 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

Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks valves + cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the Discharge Pipes 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

What Pipes are carried through the bunkers fire hold suction How are they protected wooden casing

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 Screw Shaft Tunnel watertight math. aff. Is it fitted with a watertight door no worked from no

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 196.2 sq. m. 2112 sq. ft.

Is Forced Draft fitted no No. and Description of Boilers 2 single end, multitubular. Working Pressure 13 kg. / cm²

IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes

IS A DONKEY BOILER FITTED? no If so, is a report now forwarded? no

PLANS. Are approved plans forwarded herewith for Shafting yes Main Boilers yes Auxiliary Boilers yes Donkey Boilers yes
 (If not state date of approval)

General Pumping Arrangements yes Oil fuel Burning Piping Arrangements yes

SPARE GEAR. State the articles supplied:— All spare articles as required in Section 37, page 88 of the Rules (1924-25) have been supplied.

The foregoing is a correct description,

HOWALDTSWERKE

Manufacturer.



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WHS 5085

During progress of work in shops - - *22/7 - 25/7 - 4/8 - 13/8 - 14/8 - 22/8 - 26/8 - 29/8 - 3/9 - 4/9 - 12/9 - 23/9 -*
 Dates of Survey while building *26/9 - 6/10 - 7/10 - 11/10/24*
 During erection on board vessel - - -
 Total No. of visits *17.*

Dates of Examination of principal parts - Cylinders *22/7 - 26/8 - 29/8 - 23/9/24* Slides *29/8 - 23/9/24*
 Covers *26/8 - 23/9/24* Pistons *26/8 - 29/8/24* Rods *26/8 - 29/8/24*
 Connecting rods *26/8 - 29/8/24* Crank shaft *4/8 - 14/8 - 26/8 - 24/9/24* Thrust shaft *14/8 - 29/8 - 24/9/24*
 Tunnel shafts *29/8 - 4/9 - 25/9/24* Screw shaft *26/8 - 29/8 - 16/9 - 24/9/24* Propeller *12/9/24*
 Stern tube *12/9/24* Engine and boiler seatings *23/9/24* Engines holding down bolts *3/10/24*

Completion of pumping arrangements *7/10/24* Boilers fixed *3/10/24* Engines tried under steam *11/10/24*
 Completion of fitting sea connections *12/9/24* Stern tube *12/9/24* Screw shaft and propeller *3/10/24*
 Main boiler safety valves adjusted *11/10/24* Thickness of adjusting washers *From 10 1/2 to 12 1/2 in. Port 9 in. From 9 1/2 to 14 1/2 in.*

Material of Crank shaft *Steel* Identification Mark on Do. *No 1 W.M. 24.9.24*
 Material of Thrust shaft *Steel* Identification Mark on Do. *No 2 W.M. 24.9.24*
 Material of Tunnel shafts *Steel* Identification Marks on Do. *No 3 W.M. 24.9.24*
 Material of Screw shafts *Steel* Identification Marks on Do. *No 3678 F.W. 16.9.24. Spec. No 4 W.M. 24.9.*
 Material of Steam Pipes *Steel.* Test pressure *555 lbs.* Date of Test *3/10/24*

Is an installation fitted for burning oil fuel *no.* Is the flash point of the oil to be used over 150°F.
 Have the requirements of the Rules for carrying and burning oil fuel been complied with
 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.

Material and workmanship of engine and boiler are of good quality; the outfit is ample. The materials used in the construction are made at Works recognized by the Committee and have been tested in conformity with the requirements of the Rules. Engine and boiler have been built in accordance with the approved plans and the Secretary's letter E - 27/12/23 4/11/24 - 8/2/24 - 15/2/24 - 11/3/24 - 24/3/24. and otherwise in conformity with the Rules. I attended to a 6 hour trial trip, when the machinery has given full satisfaction under full working and manoeuvring conditions. It is eligible in my opinion for notification "L.M.C. - 10, 24".
C.L.

It is submitted that this vessel is eligible for THE RECORD. + LMC 10. 24. CL.

T. 3G 14 3/4" 24" + 39 3/8" - 25 7/8"
[Signature]
20/11/24

Friedrich Hill
 Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... £ 3 : 0 :
 Special ... £ 28 : 5 :
 Donkey Boiler Fee ... £ - : - :
 Travelling Expenses (if any) £ 14 : 15 :
 When applied for, *28th Nov. 1924*
 When received, *22-11-24*

Committee's Minute **FRI. 21 NOV 1924**
 Assigned *+ Lmc 10. 24.*



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