

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office WFD. 10 JAN. 1923

Date of writing Report 10 When handed in at Local Office 8-1-23 Port of Antwerp.
 No. in Survey held at Antwerp Date, First Survey 30 December 1922 Last Survey 8 January 1923
 Reg. Book. 64757 on the S. S. KURMARK. (Number of Visits 7)
 Built at Bremerhaven By whom built Reichsmasch. Akt. Ges. Yard No. Tons { Gross 3137
 Engines made at Bremen By whom made A. G. Weser. Engine No. when built 1912
 Boilers made at Bremen By whom made A. G. Weser. Boiler No. when made 1912
 Registered Horse Power Owners Secretary of State for India in Council Port belonging to London.
 Nom. Horse Power as per Rule 402 550 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes.

ENGINES, &c.—Description of Engines Triple Expansion single screw
 Dia. of Cylinders 28.45 1/4 Length of Stroke 54 Revs. per minute 70 No. of Cylinders 3 No. of Cranks 3
 Dia. of Crank shaft journals as per rule 15.1 ✓ Dia. of Crank pin 15.157 ✓ Crank webs Mid. length breadth 23.625 ✓ Thickness parallel to axis 9.875 ✓
 as fitted 15.157 ✓ Mid. length thickness 9.875 ✓ Thickness around eye-hole 9.08 ✓
 Diameter of Thrust shaft under collars as per rule 15.1 ✓ Diameter of Tunnel shaft as per rule 14.4 ✓ Diameter of Screw shaft as per rule 15.7 ✓
 as fitted 15.157 ✓ as fitted 14.448 ✓ as fitted 16.399 ✓ 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 ✓ If 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 appliance fitted at the after end of the shaft to permit of it being efficiently lubricated ✓ Length of Stern Bush 5' 7 1/2" ✓ Diameter of Propeller 18.4
 Pitch of Propeller 18.48 No. of Blades 4 State whether Moveable Yes ✓ Total Surface 100 square feet.
 No. of Feed Pumps fitted to the Main Engines 2 Diameter of ditto 4.18 Stroke 0 Can one be overhauled while the other is at work Yes ✓
 No. of Bilge Pumps fitted to the Main Engines 2 Diameter of ditto 4.125 Stroke 0 Can one be overhauled while the other is at work Yes ✓
 Total number and size of power driven Feed and Bilge Auxiliary Pumps 2 Weir's 7/16 x 1 general service 4 15/16 x 1 Ballast 10 1/4 x
 No. and size of Pumps connected to the Main Bilge Line two main bilge one ballast 10 1/4 x
 No. and size of Ballast Pumps One 10 1/4 x No. and size of Lubricating Oil Pumps, including Spare Pump ✓
 Are two independent means arranged for circulating water through the Oil Cooler ✓ No. and size of suction connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 7 3 5/8 bore ✓ and in Holds, &c. 8 3 5/8 bore ✓

No. and size of Main Water Circulating Pump Bilge Suctions 1 1/2 8 3/8" ✓ No. and size of Donkey Pump Direct Suctions
 to the Engine Room Bilges 1 1/2 3 7/8" 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 ✓
 Are all connections with the sea direct on the skin of the ship Yes ✓ Are they Valves or Cocks Valves & cocks. ✓ Bilge along main beam
 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 Bilge along main beam
 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 ductum leading to fireholds How are they protected below Gunber boards.
 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 Yes ✓ Is it fitted with a watertight door Yes ✓ worked from Top platform

MAIN BOILERS, &c.—(Letter for record) Total Heating Surface of Boilers 7875
 Is Forced Draft fitted Yes ✓ No. and Description of Boilers 3 Multitubular Working Pressure 192 lb.
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? No
 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 None ✓ Donkey Boilers None ✓
 (If not state date of approval)
 General Pumping Arrangements Yes ✓ Oil fuel Burning Piping Arrangements None ✓
 SPARE GEAR. State the articles supplied:—

The foregoing is a correct description

FRI. 3 DEC 1926
 FRI. 29. III. 1923
 FRI. 2 MAY 1924
 TUES. 18 AUG 1925
 FRI. 12 NOV 1926
 TUES. 19 AUG 1924
 FRI. 5 SEP 1924
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During progress of work in shops - - -
 Dates of Survey while building
 During erection on board vessel - - -
 Total No. of visits

Dates of Examination of principal parts - Cylinders
 Covers
 Connecting rods
 Tunnel shafts
 Stern tube
 Completion of pumping arrangements
 Completion of fitting sea connections
 Main boiler safety valves adjusted
 Material of Crank shaft
 Material of Thrust shaft
 Material of Tunnel shafts
 Material of Screw shafts
 Material of Steam Pipes
 Is an installation fitted for burning oil fuel
 Have the requirements of the Rules for carrying and burning oil fuel been complied with
 Is this machinery duplicate of a previous case

Slides
 Rods
 Thrust shaft
 Propeller
 Engines holding down bolts
 Engines tried under steam
 Screw shaft and propeller
 Thickness of adjusting washers
 Identification Mark on Do.
 Identification Mark on Do.
 Identification Marks on Do.
 Identification Marks on Do.
 Test pressure
 Date of Test
 Is the flash point of the oil to be used over 150°F.
 If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)
 The machinery of this vessel has been built to the requirements of the Germanische Lloyd.
 Plans of Shafting, stern tube, pumping plan, Smiths Superheater enclosed herewith.
 The stroke of main and auxiliary pumps could not be taken as pumps were not connected.

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 ... £
 Special ... £
 Monkey Boiler Fee ... £
 Travelling Expenses (if any) £

When applied for, 19__
 When received, 19__

Fee to be assigned
12319

John Thurston
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute
 Assigned

TUE. FEB. 1923

TUE. DEC. 18 1923

L. B. M. 1.23
Pl. 2.22
C.L. F.D.



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FRI. DEC. 28 1923

FRI 2 MAY 1924

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