

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 29 JUN 1936

Date of writing Report 24/6/1936 When handed in at Local Office 24/6/1936 Port of Leith
 No. in Survey held at Burntisland Date, First Survey 8/5/36 Last Survey 22/6/1936
 Reg. Book. 37301 on the s/s "BRYNYMOR" (Number of Voids 10)
 Built at Burntisland By whom built Burntisland SBC Ltd Yard No. 197 When built 1936
 Engines made at Glasgow By whom made D. Rowan & Co Ltd Engine No. 991 When made 1936
 Boilers made at Glasgow By whom made D. Rowan & Co Ltd Boiler No. 991 When made 1936
 Registered Horse Power _____ Owners Brynymor SBC Ltd Port belonging to Swansea
 Nom. Horse Power as per Rule 377 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
 Trade for which Vessel is intended _____

ENGINES, &c.—Description of Engines

Dia. of Cylinders	Length of Stroke	No. of Cylinders	Revs. per minute
		No. of Cranks	
Crank shaft, dia. of journals	Crank pin dia.	Mid. length breadth	Thickness parallel to axis
		Mid. length thickness	Thickness around eye-hole
Intermediate Shafts, diameter		Thrust shaft, diameter at collars	
Tube Shafts, diameter	Screw Shaft, diameter	Is the lube shaft fitted with a continuous liner	
Bronze Liners, thickness in way of bushes	Thickness between bushes	Is the after end of the liner made watertight in the propeller boss	
Propeller, dia.	Pitch	No. of Blades	Material
Feed Pumps worked from the Main Engines, No.	Diameter	Stroke	Can one be overhauled while the other is at work
Bilge Pumps worked from the Main Engines, No.	Diameter	Stroke	Can one be overhauled while the other is at work
Feed Pumps	No. and size	Pumps connected to the Main Bilge Line	No. and size
Ballast Pumps, No. and size		Lubricating Oil Pumps, including Spare Pump, No. and size	
Oil Cooler		Suctions, connected to both Main Bilge Pumps and Auxiliary	
Bilge Pumps;—In Engine and Boiler Room	<u>1 P 25 D 3" dia</u>	<u>Tunnel well suction 1 @ 2 1/2" dia</u>	
In Pump Room	<u>N° 4 Hold 1 P 4 S 3 1/2" dia</u>	<u>N° 1 Hold 1 P 4 S 3" dia</u>	<u>N° 3 Hold 1 P 4 S 3 1/2" dia</u>
	<u>N° 5 Hold 1 P 4 S 2 1/2" dia</u>	<u>Hold well suction 1 @ 2 1/2" dia</u>	
Main Water Circulating Pump Direct Bilge Suctions, No. and size	<u>1 @ 6" dia</u>	Independent Power Pump Direct Suctions to the Engine Room Bilges,	
Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-bones			<u>Yes</u>
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			<u>Yes</u>
Are all Sea Connections fitted direct on the skin of the ship	<u>Yes</u>	Are they fitted with Valves or Cocks	<u>Both</u>
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates	<u>Yes</u>	Are the Overboard Discharges above or below the deep water line	<u>Above</u>
Are they each fitted with a Discharge Valve always accessible on the plating of the vessel	<u>Yes</u>	Are the Blow Off Cocks fitted with a spigot and brass covering plate	<u>Yes</u>
What Pipes pass through the bunkers	<u>Bilge suction</u>	How are they protected	<u>Wood ceiling</u>
What pipes pass through the deep tanks		Have they been tested as per Rule	<u>Yes</u>
Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times			<u>Yes</u>
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	<u>Yes</u>	Is the Shaft Tunnel watertight	<u>Yes</u>
		Is it fitted with a watertight door	<u>Yes</u>
		worked from	<u>top grating</u>

MAIN BOILERS, &c.—(Letter for record)

Total Heating Surface of Boilers _____ Working Pressure _____
 Is Forced Draft fitted _____ No. and Description of Boilers _____
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? _____
 IS A DONKEY BOILER FITTED? _____ If so, is a report now forwarded? _____
 Is the donkey boiler intended to be used for domestic purposes only _____
 PLANS. Are approved plans forwarded herewith for Shafting _____ Main Boilers _____ Auxiliary Boilers _____ Donkey Boilers _____
 (If not state date of approval) _____
 Superheaters _____ General Pumping Arrangements _____ Oil fuel Burning Piping Arrangements _____

SPARE GEAR.

Has the spare gear required by the Rules been supplied _____
 State the principal additional spare gear supplied _____

See Glasgow Rpt No 57024

The foregoing is a correct description,

Manufacturer.



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Note:—The words which do not apply should be deleted.
 If not, state whether, and when, one will be sent.
 In a Report also sent on the Hull of the Ship.

During progress of work in shops - -
 Dates of Survey while building
 During erection on board vessel - - - *May 8, 14, 21, 28 June 4, 11, 12, 16, 19, 22.*
 Total No. of visits 10

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 ✓ Engine and boiler seatings *21/5/36* Engines holding down bolts *4/6/36*
 Completion of fitting sea connections *21/5/36*
 Completion of pumping arrangements *12/6/36* Boilers fixed *4/6/36* Engines tried under steam *22/6/36*
 Main boiler safety valves adjusted *11/6/36* Thickness of adjusting washers *MB P 3/8 S 5/16 P 3/8 S 3/8 Aux. B. P 3/8 S 3/8*
 Crank shaft material ✓ Identification Mark ✓ Thrust shaft material *Superficial 1/4* Identification Mark ✓
 Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material ✓ Identification Mark ✓ Steam Pipes, material ✓ Test pressure ✓ Date of Test ✓
 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 the use of oil as fuel been complied with ✓
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo *No* 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 ✓
 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 has been efficiently fitted on board, the material & workmanship being sound & good. On completion, all safety valves were adjusted 220 lbs. to the Main & Auxiliary machinery were tried under working conditions & found satisfactory. This machinery in my opinion, is in safe working condition & eligible to be classed in the Register Book with the notation of LMC 6-36 & TS (C) 6-36*

The amount of Entry Fee ... £ :
 Special ... £ *See Glasgow* :
 Donkey Boiler Fee ... £ *Ref No 37024* :
 Travelling Expenses (if any) £ *1-18-0* :
 When applied for, *27/6/1936*
 When received, *36/7/37*

Chas R Rowcliffe
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *FRI. 8 JUL 1936*

Assigned *+ LMC 6.36*
RD, CL



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