

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 24 JUL 1946

Date of writing Report 3.7.46 When handed in at Local Office 8.7.46 Port of GLASGOW
 No. in Survey held at GLASGOW Date, First Survey 1.5.44 Last Survey 12.6.46
 Reg. Book on the S.S. MOUNT PARK
 Built at GLASGOW By whom built CHAS. CONNELLY & CO. LTD. Yard No. 450 When built 1946
 Engines made at GLASGOW By whom made J. ROWAN & CO. LTD. Engine No. 1153 When made 1946
 Boilers made at GLASGOW By whom made J. ROWAN & CO. LTD. Boiler No. 1153 When made 1946
 Registered Horse Power Owners JENHOLM LINE STEAMERS LTD. Port belonging to GREENOCK
 Nom. Horse Power as per Rule 531 ✓ Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YES
 Trade for which vessel is intended M.N. 666 OCEAN GOING

ENGINES, &c.—Description of Engines Triple expansion Revs. per minute 174
 Dia. of Cylinders 24½-39-70 Length of Stroke 48 No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 14 as fitted 14¼ Crank pin dia. 14¾ Crank webs Mid. length breadth 27½ Thickness parallel to axis 9
 Intermediate Shafts, diameter as per Rule 13.33 as fitted 13⅝ Thrust shaft, diameter at collars as per Rule 14 as fitted 14¼
 Tube Shafts, diameter as per Rule 14.85 as fitted 15¼ Is the tube screw shaft fitted with a continuous liner yes
 Bronze Liners, thickness in way of bushes as per Rule 13/16 as fitted 13/16 Thickness between bushes as per Rule 9/16 as fitted 2/32 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 junctions made by fusion through the whole thickness of the liner yes
 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 yes
 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 at No If so, state type Length of Bearing in Stern Bush next to and supporting propeller 5'1"
 Propeller, dia. 18'3" Pitch 16'6" No. of Blades 4 Material Bronze whether Moveable No Total Developed Surface 110 sq. feet
 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. 2 Diameter 4" Stroke 24" Can one be overhauled while the other is at work yes
 Feed Pumps No. and size 2@10½-8-22 1@6-4-6 Pumps connected to the Main Bilge Line No. and size 1@10-12-12 1@6-8-8 Duplex How driven Steam
 Ballast Pumps, No. and size 1@10-12-12 Duplex 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
 Bilge Pumps:—In Engine and Boiler Room 4@3" 3@1½" 1@dam 1@2" Tunnel Well 1@2½"
 In Pump Room N°4 Hold 2@3" N°5 Hold 2@3" In Holds, &c. N°1 Hold 2@3" N°2 Hold 2@4" N°3 Hold 2@3"
 Main Water Circulating Pump Direct Bilge Suctions, No. and size 1@10 Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1@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
 Are 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 Both
 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 pass through the bunkers None How are they protected
 What pipes pass through the deep tanks Ballast line Have they been tested as per Rule yes
 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 Top platform

MAIN BOILERS, &c.—(Letter for record S.) Total Heating Surface of Boilers 7728 sq (INCL. S'HEAT 7728+3000=10,728 sq)
 Which Boilers are fitted with Forced Draft ALL Which Boilers are fitted with Superheaters ALL
 No. and Description of Boilers 3 S.E. Multitubular Working Pressure 220 lb
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
 IS A DONKEY BOILER FITTED? No If so, is a report now forwarded?

Can the donkey boiler be used for domestic purposes only
 PLANS. Are approved plans forwarded herewith for Shafting 7-2-44 Main Boilers 14-8-43 Auxiliary Boilers Donkey Boilers
 (If not state date of approval)

Superheaters General Pumping Arrangements 20-2-46 Oil fuel Burning Piping Arrangements 20-2-46

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes
 State the principal additional spare gear supplied C.I. Crapelled & propeller shaft
 SPARE
 PROPELLER SHAFT
 LLOYD'S
 F9930
 13544
 H.A.I.
 1-11-45
 N.K. 28-3-46

The foregoing is a correct description.

For David Rowan & Co. Ltd.
Arch. H. Grierson

Manufacturer.

Dates of Survey while building	During progress of work in shops - -	1944 May 1 Aug 10 Oct 9, 18 Nov 14 Dec 16 1945 Jan 4, 11, 28, 28, 28 Mar 14, 15, 29, 30 Apr 17, 24 May 1, 10, 23, 31 Jan 7, 11, 28, 30 July 3, 1, 6, 21 Aug 2 Sep 12, 14, 16, 19, 22, 29 Nov 19, 22, 30 Dec 5, 12, 19, 22, 24, 28 1946 Jan 11, 21, 31 Feb 4, 5, 13, 24, 25 Mar 4, 5, 6
	During erection on board vessel - - -	7, 11, 13, 18, 25, 26, 28, 31 Apr 1, 2, 8, 10, 12, 16, 24, 28, 29, 30 May 1, 2, 3, 8, 9, 14, 29 Jun 1, 2, 12
	Total No. of visits.....	85

Dates of Examination of principal parts		Cylinders	30-6-45	Slides	11-1-46	Covers	30-6-45
Pistons	11-1-46	Piston Rods	11-1-46	Connecting rods	11-1-46		
Crank shaft	31-5-45	Thrust shaft	13-3-46	Intermediate shafts	4-1-45		
Tube shaft	✓	Screw shaft	13-3-46	Propeller	13-3-46		
Stern tube	11-3-46	Engine and boiler seatings	25-3-46	Engines holding down bolts	25-4-46		

Completion of fitting sea connections	20-3-46			
Completion of pumping arrangements	27-5-46	Boilers fixed	31-3-46	Engines tried under steam
Main boiler safety valves adjusted	27-5-46	Thickenss of adjusting washers	PORT 2 3/8" SV 1 1/8" SH 3/8" CENTRE P 3/8" S 3/8" SH 1/4" STBD P 1/16" S 3/8" SH 1/8"	12-6-46
Crank shaft material	Steel	Identification Mark	G.E.M. 31-5-45	Thrust shaft material
Intermediate shafts, material	Steel	Identification Marks	J.S. 4-1-45	Tube shaft, material
Screw shaft, material	S	Identification Mark	N.K. 13-3-46	Test pressure
Is an installation fitted for burning oil fuel	Yes	Is the flash point of the oil to be used over 150° F	Yes	

Have the requirements of the Rules for the use of oil as fuel been complied with Yes

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 —

Is this machinery duplicate of a previous case Yes If so, state name of vessel Emp. Swordsman fl. Reg 65294 & 68656

General Remarks (State quality of workmanship, opinions as to class, &c. This machinery has been built under special survey in accordance with the rules and approved plans. The materials and workmanship are good. It has been satisfactorily installed in the vessel, tested under full working conditions, found in good order and, in my opinion, is eligible to be classed with record of + LMC 6, 46 and notation C.L. 3 S.E. boiler (Spt) fitted for oil fuel 746 F.P. above 150° F.

Certificate to be sent to...

The amount of Entry Fee	... £	6	:	-	:	} When applied for, 23 JUL 1948
Special £	101	:	11	:	
Donkey Boiler Fee £		:		:	
Travelling Expenses (if any)	£		:		:	
						When received, 19

Committee's Minute

Assigned 7-2006 6.46

Fitted for air fuel 6.46 ^{one} P.P. above 1500 ft

1500

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