

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

No. 34495 (C.900)

Received at London Office
 When handed in at Local Office 6th December 1944 Port of **SUNDERLAND**
 Survey held at **SUNDERLAND** Date, First Survey 11th April 1944 Last Survey 29th June 1945
 on the **3/3 'MULLION COVE'** (Number of Visits 124)
 Tons { Gross 1566.41
 Net 5268.69
 By whom built **BARTRAMS** Yard No. **301** When built **1945**
 By whom made **DUNCAN STEWART & CO. LTD.** Engine No. **147** When made **1945**
 By whom made **NORTH EASTERN MARINE ENG. CO.** Boiler No. **4078** When made **1945**
 Owners
 Port belonging to
 Is Refrigerating Machinery fitted for cargo purposes **NO** Is Electric Light fitted **YES**
 which Vessel is intended **OPEN SEA**

DESCRIPTION OF ENGINES **TRIPLE EXPANSION RECIPROCATING. SEE GUNSON RPN 65562. Revs. per minute**
 Length of Stroke **18'-3"** No. of Cylinders **4** No. of Cranks **2**
 Crank pin dia. **13'-34"** Crank webs **13'-58"** Mid. length breadth **14'-85"** Thickness parallel to axis **14'-14"**
 Mid. length thickness **15'-32"** Thickness around eye-hole **15'-32"**
 Thrust shaft, diameter at collars **14"** as per Rule **14'-14"**
 Is the screw shaft fitted with a continuous liner **YES**
 Thickness between bushes **13'-16"** as per Rule **15'-32"** Is the after end of the liner made watertight in the **YES**
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner **YES**
 Is the space charged with a plastic material insoluble in water and non-corrosive **YES**
 Is an approved Oil Gland or other appliance fitted at the after end of the tube **YES**
 Length of Bearing in Stern Bush next to and supporting propeller **27"**
 Can one be overhauled while the other is at work **YES**
 Pumps connected to the Main Bilge Line { No. and size **ONE - 10 1/2" x 13" x 24"** ONE **9 1/2" x 7" x 21"**
 How driven **STEAM**
 Lubricating Oil Pumps, including Spare Pump, No. and size **ONE - 10 1/2" x 13" x 24"**
 Suctions, connected to both Main Bilge Pumps and Auxiliary **ONE - 10 1/2" x 13" x 24"**
 In Holds, &c. **Nº1 - 2 @ 3" dia. Nº2 - 2 @ 3" dia. Nº3 - 2 @ 3" dia. Nº4 - 2 @ 2 1/2" dia. Nº5 - 2 @ 3" dia. Nº6 - 3 @ 2 1/2" dia.**

Independent Power Pump Direct Suctions to the Engine Room Bilges
 Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes **YES**
 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 they fitted with Valves or Cocks **YES**
 Are the Overboard Discharges above or below the deep water line **BOTH**
 Are the Blow Off Cocks fitted with a spigot and brass covering plate **YES**
 How are they protected **BILGE LUMBER BOARDS**
 Have they been tested as per Rule **YES**
 Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times **YES**
 Is the Shaft Tunnel watertight **YES**
 Is it fitted with a watertight door **YES**
 worked from **Main Deck**

BOILERS, &c. (Letter for record **S**) Total Heating Surface of Boilers **7246 sq. ft.** SM. **2790 sq. ft.** = **10,038**
 Which Boilers are fitted with Superheaters **ALL**
REPORT ON MAIN BOILERS NOW FORWARDED? **YES**
DONKEY BOILER FITTED? **NO** If so, is a report now forwarded? **YES**
 Are approved plans forwarded herewith for Shafting **12.43** Main Boilers **26.6.42** Auxiliary Boilers **27.9.44** Donkey Boilers **27.9.44**
 General Pumping Arrangements **24.10.44** Oil fuel Burning Piping Arrangements **27.9.44**

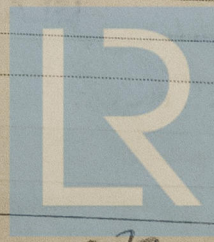
SPARE GEAR.
 gear required by the Rules been supplied **YES**
 principal additional spare gear supplied

foregoing is a correct description.

THE NORTH EASTERN MARINE ENGINEERING CO. (1938) LTD.

Manufacturer.

RESIDENT MANAGER.



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Lloyd's Register Foundation

009721-00 9729-0238

1944 Apr 11, 27 May 5, 11, 16, 31 Jun 5, 6, 8, 13, 19, 22, 23, 26, 28, 29 Jul 1, 3, 4, 5, 10, 11, 12, 14, 15, 17, 18, 19, 20, 21, 22, 24, 25
 During progress of work in shops - - Aug 18, 21, 22, 23, 24, 25, 31 Sep 2, 4, 5, 7, 9, 15, 19, 20, 22, 25, 26, 27, 29, 30 Oct 2, 3, 5, 6, 9, 10, 11, 12, 13, 16, 18, 20, 23, 24, 25, 26, 27, 29
 Dates of Survey while building During erection on board vessel - - 4, 8, 9, 10, 12, 13, 17, 21, 23, 29, 30 Dec 1, 5, 7, 8, 13, 14, 15, 18, 21, 22, 29, 30
 1945 Jan 11 Feb 16, 19, 21 Mar 15, 20, 23 Apr 5, 17, 19 May 1, 10, 31 Jun 11, 12, 20, 26, 27, 28, 29
 Total No. of visits 124

Dates of Examination of principal parts—Cylinders		✓	Slides	✓	Covers
Pistons	✓	Piston Rods	✓	Connecting rods	✓
Crank shaft	✓	Thrust shaft	18.7.44.	Intermediate shafts	27.7.44. 19.8.
Tube shaft	✓	Screw shaft	18.7.44.	Propeller	19.7.44.
Stern tube	12.7.44.	Engine and boiler seatings	5.7.44.	Engines holding down bolts	6.11.44.
Completion of fitting sea connections	10.7.44.				
Completion of pumping arrangements	11.6.45.	Boilers fixed	2.10.44.	Engines tried under steam	30.
Main boiler safety valves adjusted	29.12.44.	Thickness of adjusting washers	SH 7/32"	P. S. 5/16"	P. C. 5/16"
Crank shaft material	✓	Identification Mark	MS 2744. 5.6.7.	Thrust shaft material	OH. STEEL.
Intermediate shafts, material	OH STEEL.	Identification Marks	MS 104. 11529.	Tube shaft, material	✓
Screw shaft, material	OH STEEL.	Identification Mark	2743.	Steam Pipes, material	OH STEEL
Is an installation fitted for burning oil fuel	NO.	Is the flash point of the oil to be used over 150°F.		Test pressure	660 LBS/SQ. IN.
Have the requirements of the Rules for the use of oil as fuel been complied with				Date of Test	
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	✓	If so, state name of vessel			

General Remarks (State quality of workmanship, opinions as to class, &c.)
 The machinery of this vessel has been constructed under Special Survey in accordance with the approved plans, Secretary's Letters, and the requirements of the Rules.
 The workmanship and materials are good.
 The machinery has been tried under working conditions, with satisfactory results, and is eligible in my opinion for Classification and to have the -

NOTATION **⊕ LMC** (WITH DATE) **TS.CL. 3 SB (SPT) 220 LBS/SQ. IN.**

Certificate to be sent to Committee's Minute.

The amount of Entry Fee	£	:	:	When applied for,
Special	£	44	5	26-7-1945
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any)	£	:	:	15-9-45
				17-10-1945

A. E. Munro
 Engineer Surveyor to Lloyd's Register
 5.12.47.

Committee's Minute GLASGOW 13 APR 1948

SEE ACCOMPANYING MACHINERY REPORT

