

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office
NEWCASTLE-ON-TYNE.

When handed in at Local Office 28/9/45 Port of 1545
 Date, First Survey Aug. 29th 1945 Last Survey Aug. 10th 1945
 No. in Survey held at Wallsend on Tyne (Number of Visits 100) Gross 13830
 Reg. Book. on the Loan Se. WHALE FACTORY "NORTHVAL" Tons Net 7401
 Built at Haverton Hill on Tyne By whom built Furness S. B. Coy. L^r Yard No. 388 When built
 Engines made at Wallsend on Tyne By whom made N.E. MAR. ENG. CO. (1938) L^r Engine No. 3115 When made 1945
 Boilers made at ditto By whom made ditto Boiler No. 3115 When made 1945
 Registered Horse Power
 Nom. Horse Power as per Rule 1356 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes
 Trade for which Vessel is intended Ocean going Whale Factory

OWNERS NORWEGIAN SHIPPING & TRADE MISSION. Port belonging to LARVIK
 Description of Engines Jun. 3 Cylr Triple Expn. Revs. per minute 76
 Dia. of Cylinders 24 1/2 + 39 + 70 Length of Stroke 48" No. of Cylinders 6 No. of Cranks 6
 Crank shaft, dia. of journals as per Rule 13.98" Crank pin dia. 14 3/4" Mid. length breadth shrunk Thickness parallel to axis 9"
 Intermediate Shafts, diameter as per Rule 13.2" Thrust shaft, diameter at collars as per Rule 13.98" Thickness around eye-hole 6 3/8"
 Tube Shafts, diameter as per Rule 15.74 + 5.2 for Sea Navys Is the screw shaft fitted with a continuous liner Yes
 Bronze Liners, thickness in way of bushes as per Rule 24.75" Thickness between bushes as per Rule 18.5" 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 In one piece
 If two liners are fitted, is the shaft lapped or protected between the liners Yes Is an approved Oil Gland or other appliance fitted at the after end of the tube at tight fit
 Propeller, dia. 17-0" Pitch VARYING Mean 17-0" No. of Blades 4 Material M. Bronze whether Moveable No Total Developed Surface 101 sq. feet
 Feed Pumps worked from the Main Engines, No. NIL Diameter 4" Stroke 27" Can one be overhauled while the other is at work Yes
 Bilge Pumps worked from the Main Engines, No. 2 Diameter 4" Stroke 27" Can one be overhauled while the other is at work Yes
 Pumps connected to the Main Bilge Line { No. and size Ball P. 13 1/2 x 16 1/2 x 26"; Can Sew. P. 10 1/2 x 12 x 18" How driven By Steam 110 tons/hr.
 Lubricating Oil Pumps, including Spare Pump, No. and size One of 13 1/2 x 16 1/2 x 26"
 Are two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary
 Bilge Pumps;—In Engine and Boiler Room 1 of 4" at aft end; 4 of 3 1/2"; 1 of 2 1/2" to d. stem cofferdam.
 In Pump Room

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 on Port & 1 on Starboard 29" bore Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 of 6" dia
 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 with 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 below
 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 Yes How are they protected
 What pipes pass through the deep tanks Yes Have they been tested as per Rule
 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 NONE FITTED. MACHY. AFT. Is it fitted with a watertight door worked from 21996 sq. ft.

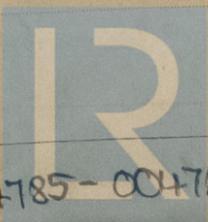
MAIN BOILERS, &c.—(Letter for record S.) Total Heating Surface of Boilers 22,136 sq. ft.
 Which Boilers are fitted with Forced Draft All eight Boilers Which Boilers are fitted with Superheaters all 8 Boilers
 No. and Description of Boilers 8 S.B. Working Pressure 220 lbs/sq in. 29916 for RB
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes for both 16" dia & for 15" dia.
 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 8-12-44 Main Boilers 7-9-44 Auxiliary Boilers Donkey Boilers
 Superheaters N.E. Mar. Standard General Pumping Arrangements 22-6-45 Oil fuel Burning Piping Arrangements 22-6-45

SPARE GEAR.
 Has the spare gear required by the Rules been supplied Yes
 State the principal additional spare gear supplied 1. Propeller Shaft complete with nut; 1 Piston Rod with nut, 1 Valve spindle with nuts, 2 Ecc straps, 1 Crank shoe complete, 2 Air Pump Rods, 50 plain Boiler tubes etc.

Dynamo auxiliary engine comply with Notice 1803
 (See letter 10.7.45)

THE NORTH EASTERN MARINE ENGINEERING CO. (1938) LTD.
 The foregoing is a correct description.
 J. H. Smith
 DIRECTOR.

Manufacturer.



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Lloyd's Register Foundation

004785-004788-0199

During progress of work in shops - - (1944) Aug 29, Nov. 1, 2, 14, 15, 17, 20, 29 Dec. 1, 4, 5, 11, 15, 19, 29 (1945) Jan. 2, 18, 19, 31 Feb. 6, 8, 9, 15, 21, 22, 27, 28, 26
 Dates of Survey while building - - - 1, 6, 14, 23, 28, 29, 30 Apr. 3, 5, 10, 11, 12, 13, 16, 17, 19, 20, 23, 24, 27, 30 May 1, 2, 3, 4, 7, 10, 11, 14, 15, 16, 17, 18, 22, 23, 25, 28, 29, 30, 31 June 1, 4, 5, 6, 7, 8, 11, 12, 13, 15, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29 July 2, 4, 5, 6, 9, 10, 12, 20 Aug. 10
 During erection on board vessel - - -
 Total No. of visits 100

Dates of Examination of principal parts—Cylinders Pat 22-5-45
 Slides 17-5-45 Covers As Cylinders
 Pistons 17-5-45 Piston Rods 17-5-45 Connecting rods 17-5-45
 Crank shaft Pat 23-3-45 ; Sth 27-4-45 Thrust shaft Pat 14-3-45 ; Sth 6-3-45 Intermediate shafts 17-7-45 W. Hpl.
 Tube shaft Screw shaft 19-7-45 W. Hpl. 30-7-45 W. Hpl. Propeller 20/1/45 24/1/45
 Stern tube 12/7/45 16/7/45 Engine and boiler seatings 25/6/45 25/5/45 25/8/45 Engines holding down bolts 3/10/45 24/10/45
 Completion of fitting sea connections 23/7/45 Boilers fixed 27/8/45 22/10/45 Engines tried under steam 21/10/45 24/5/45
 Completion of pumping arrangements 23/11/45 Main boiler safety valves adjusted
 Crank shaft material OH. Forged Steel Identification Mark 4-3-45 AN. 16-3-45 AN. Thickness of adjusting washers PART ENG. STAR ENG NEM. 3/115.
 Intermediate shafts, material F. Sth Identification Marks LLOYDS. 3439.C.P. 3448.C.P. Thrust shaft material OH. Forged Steel Identification Mark P. LLOYDS 544 REG S. 3436CP.
 Screw shafts material F. Sth Identification Mark 3442.C.P. 3449.C.P. Tube shaft material S. DAVSLEY Identification Mark
 Steam Pipes, material S. DAVSLEY Test pressure 660 lbs. Date of Test 25-5-45 to 5-7-45
 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 Yes If so, have the requirements of the Rules been complied with Yes
 If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with Yes ✓
 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.)
 The machinery has been constructed under special survey in accordance with the approved plans and the Society's Rules, and the materials & workmanship are good. The Engines & Boilers have been sent to Haverton Hill in Tees for installing on board.

Plans as per list
 Forging reports, Steel advice notes
 Copies of certificates & 9 from board



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

The amount of Entry Fee ... £	6	:-	When applied for,
Special 45 th NWC. 9%	133	18	28 SEP 1945
Donkey Boiler 15 th MDR 2%			
Travelling Expenses (if any) £	:	:	When received,
			19

A Watt.
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 15 FEB 1946**
 Assigned Sir F.E. Mackay, spb

