

REPORT ON OIL ENGINE MACHINERY.

No. 5-118-51

Date of writing Report 16.1 1954 When handed in at Local Office 19 Port of GRONINGEN Received at London Office

No. in Survey held at FOXHOL Date, First Survey 14.1.53 Last Survey 1 1954
Reg. Book. Number of Visits 15

Single on the Twin Screw vessel MY "INTAN" Tons Gross 668.50
Triple Net 429.86
Quadruple

Built at FOXHOL By whom built N.V. FERUS SMIT. Yard No. 116 When built 1954

Engines made at AMSTERDAM By whom made N.V. "WERKSPOR" Engine No. 1479 When made 1953

Boilers made at ✓ By whom made ✓ Boiler No. ✓ When made ✓

Indicated Horse Power 500 Owners Republik Indonesia Port belonging to DJAKARTA

N. Power as per Rule 100 Is Refrigerating Machinery fitted for cargo purposes NO Is Electric Light fitted YES

Trade for which vessel is intended OCEAN TRADE

MAIN ENGINES, &c.—Type of Engines ✓ 2 or 4 stroke cycle ✓ Single or double acting ✓

Maximum pressure in cylinders ✓ Diameter of cylinders 21 Length of stroke ✓ No. of cylinders ✓ No. of cranks ✓

Mean Indicated Pressure ✓ Ahead Firing Order in Cylinders ✓ Span of bearings, adjacent to the crank, measured ✓

From inner edge to inner edge ✓ Is there a bearing between each crank ✓ Revolutions per minute ✓

Flywheel dia. ✓ Weight ✓ Moment of inertia of flywheel (lbs. in² or Kg. cm.²) ✓ Means of ignition ✓ Kind of fuel used ✓

Crank pin dia. ✓ Crank webs Mid. length breadth ✓ Thickness parallel to axis ✓
All built dia. of journals as fitted ✓ Mid. length thickness ✓ shrunk Thickness around eyehole ✓

Intermediate Shafts, diameter as per Rule ✓ Thrust Shaft, diameter at collars as fitted ✓

Screw Shaft, diameter as per Rule ✓ Is the tube shaft fitted with a continuous liner NO ✓

Thickness between bushes as per Rule ✓ Is the after end of the liner made watertight in the ✓

propeller boss ✓ If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner ✓

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 Oil Gland or other appliance fitted at the after ✓

end of tube shaft YES If so, state type KAN DAM Length of bearing in Stern Bush next to and supporting propeller 800 ✓

Propeller, dia. 1840 Pitch 1110 No. of blades 4 Material BRONZE whether moveable SOLID Total developed surface 46.22 sq. feet ✓

Moment of inertia of propeller (lbs. in² or Kg. cm.²) 259 Kind of damper, if fitted ✓

Method of reversing Engines ✓ Is a governor or other arrangement fitted to prevent racing of the engine when declutched ✓ Means of ✓

ignition ✓ Thickness of cylinder liners ✓ Are the cylinders fitted with safety valves ✓ Are the exhaust pipes and silencers water cooled ✓

lagged with non-conducting material ✓ If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned ✓

to the engine ✓ Cooling Water Pumps, No. 1 FW (ME) + 1 SW (ME) + 1 FW (ELECT) + 2 BALLAST Is the sea suction provided with an efficient strainer which can be cleared within the vessel YES ✓

Can one be overhauled while the other is at work ✓

How driven AUX ENG ELECT

Are cooling water led to the bilges NO ✓ If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping ✓

arrangements ✓

Fast Pumps, No. and size 2 @ 3.5 TH Power Driven Lubricating Oil Pumps, including spare pump, No. and size 1 @ 4 1/2 TH, 1 @ 6 TH

Are two independent means arranged for circulating water through the Oil Cooler YES ✓ Suctions, connected to both main bilge pumps and auxiliary ✓

pumps, No. and size:—In machinery spaces 1 @ 3" ✓ In pump room ✓

Overboard discharges, &c. 6 @ 2 1/4" ✓

Independent Power Pump Direct Suctions to the engine room bilges, No. and size 2 @ 3" ✓

Are all the bilge suction pipes in holds and tunnel well fitted with strum-boxes YES ✓ Are the bilge suction in the machinery spaces 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 EM. CHES. Are they fitted with valves or cocks VALVES ✓ Are they fixed ✓

Are they fixed ✓ Are the overboard discharges above or below the deep water line ABOVE ✓

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 ✓

Are pipes pass through the bunkers ✓ How are they protected ✓

Are pipes pass through the deep tanks BALLAST PIPES TO FOREPEAK & NO. 1, 2, 3 DEB. TANKS ✓ 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 ✓

Are 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 NO ✓ Is it fitted with a watertight door ✓ worked from ✓

Are wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork ✓

Air Compressors, No. ✓ No. of stages ✓ diameters ✓ stroke ✓ driven by ✓

Auxiliary Air Compressors, No. 1 ✓ No. of stages 2 diameters 9.5/11.0 stroke 85 driven by AUX ENG

Auxiliary Air Compressors, No. 1 ✓ No. of stages 2 diameters 7.5/8.5 stroke 70 driven by AUX ENG

Is provision is made for first charging the air receivers HANA STARTED AUX ENGINES ✓

Are charging Air Pumps, No. ✓ diameter ✓ stroke ✓ driven by ✓

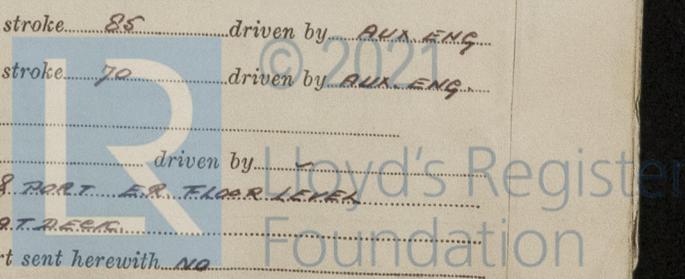
Are auxiliary Engines crank shafts, diameter as per Rule KRAMHAUT 130MM / 130MM No. STBD & PORT EA. FLOOR LEVEL

Are the auxiliary engines been constructed under special survey YES AMS FE REP 1886/1887 Is a report sent herewith NO

AND AM. CERT. DATED 23-2-53

008824 - 008811 - 0029

15/2/54



AIR RECEIVERS:—Have they been made under survey. YES ✓ State No. of report or certificate. ✓
 Is each receiver, which can be isolated, fitted with a safety valve as per Rule. ✓
 Can the internal surfaces of the receivers be examined and cleaned. ✓ Is a drain fitted at the lowest part of each receiver. ✓
Injection Air Receivers, No. ✓ Cubic capacity of each. ✓ Internal diameter. ✓ thickness. ✓
 Seamless, welded or riveted longitudinal joint. ✓ Material. ✓ Range of tensile strength. ✓ Working pressure. ✓
Starting Air Receivers, No. ✓ Total cubic capacity. ✓ Internal diameter. ✓ thickness. ✓
 Seamless, welded or riveted longitudinal joint. ✓ Material. ✓ Range of tensile strength. ✓ Working pressure. ✓

IS A DONKEY BOILER FITTED NO 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. ✓ Receivers. ✓ Separate fuel tanks. ✓
 (If not, state date of approval)
 Donkey boilers. ✓ General pumping arrangements. 22-1-53 Pumping arrangements in machinery space. 15-2-53
 Oil fuel burning arrangements. 17-2-53
 Have Torsional Vibration characteristics been approved. ✓ Date of approval. ✓

SPARE GEAR.

Has the spare gear required by the Rules been supplied. YES
 State the principal additional spare gear supplied. ✓

The foregoing is a correct description, and the particulars of the installation as fitted are as approved.
 Torsional vibration characteristics. Manufacturer. N.W. Machinery & Rep. Bdrly
D. E. CORTER

Dates of Survey while building: During progress of work in shops - - 6 visits See A'dam Rpt 1912
 During erection on board vessel - - 1953 July 4 Sep 15 23 Oct 5-15-28 29-30 Nov 10-20-26 Dec 1-28 1954 Jan 7
 Total No. of visits 21
 Dates of examination of principal parts—Cylinders. ✓ Covers. ✓ Pistons. ✓ Rods. ✓ Connecting rods. ✓
 Crank shaft. ✓ Flywheel shaft. ✓ Thrust shaft. 4-8-53 Intermediate shafts. 23-9-53 Tube shaft. ✓
 Screw shaft. ✓ Propeller. 26-3-53 Stern tube. ✓ Engine seatings. 30-10-53 Engine holding down bolts. 30-10-53
 Completion of fitting sea connections. 22-4-53 Completion of pumping arrangements. 28-12-53 Engines tried under working conditions. 7-1-54
 Crank shaft, material. ✓ Identification mark. ✓ Flywheel shaft, material. ✓ Identification mark. ✓
 Thrust shaft, material. ✓ Identification mark. ✓ Intermediate shafts, material. SM STEEL Identification marks. LAMS 51
 Tube shaft, material. ✓ Identification mark. ✓ Screw shaft, material. SM STEEL Identification mark. LAMS N° 1
 Identification marks on air receivers. ✓

Welded receivers, state Makers' Name. ✓
 Is the flash point of the oil to be used over 150°F. YES ✓
 Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with. YES ✓
 Description of fire extinguishing apparatus fitted. 3 FIREFOAMS @ 9 LITRES, 1 @ 45 LTRS., 2 ER HOSE CONNECTIONS
 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. YES If so, state name of vessel. BOSNIAN, BIDURI, ETC.

General Remarks (State quality of workmanship, opinions as to class, Speed restrictions, &c.)
This engine and auxiliaries have been constructed and fitted under special survey in accordance with the approved plans, British Rules and Secretary's letters—The workmanship was found good.—The machinery has been tested under full working conditions on a trial trip and found working satisfactorily.—In my opinion the machinery of this vessel merits the approval of the Committee and be recorded in the Society's Register Book #1 LMP 1-54—OIL ENGINE—

Certificate (if required) 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 ... £ 220- - :
 Special £ : :
 Donkey Boiler Fee... .. £ : :
 Travelling Expenses (if any) £ 89- - :
 Committee's Minute
 Assigned See Rpt 4 p.

When applied for 30-1-1954
 When received 19

FRIDAY 19 FEB 1954

A. H. Mohr
 Engineer Surveyor to Lloyd's Register of Shipping
 © 2021
 Lloyd's Register Foundation

11-2-54