

REPORT ON OIL ENGINE MACHINERY.

No. 1886.

10 MAR 1937

Received at London Office

15th Feb. 1937 When handed in at Local Office 5. 3. 1937 Port of Bremen
 Date, First Survey June 8th, 1936 Last Survey Feb. 15th 1937
 Number of Visits 117

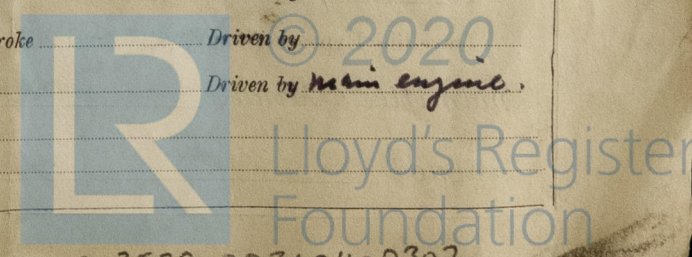
Single on the Twin Triple Quadruple Screw vessel
 By whom built Messrs. Deutsche Werft A.G. Yard No. 187 When built 1936/37
 By whom made Messrs. M. A. M. Engine No. 687130/140 When made 1936/37
 By whom made Boiler No. When made
 Owners Texas Oil Comp. Port belonging to
 Horse Power 2 x 3600
 Horse Power as per Rule 2 x 585 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted yes
 made for which vessel is intended 20 1/2 35 7/16

4 ENGINES, &c.—Type of Engines 2 x 982 52/90 2 or 4 stroke cycle 2 Single or double acting single
 Maximum pressure in cylinders 45 kg/cm² Diameter of cylinders 520 Length of stroke 900 No. of cylinders 2 x 8 No. of cranks 8 each
 Indicated Pressure 5.5 kg/cm² Is there a bearing between each crank yes
 of bearings, adjacent to the Crank, measured from inner edge to inner edge 680 mm
 olutions per minute 170 Flywheel dia. 1932 Weight 980 kg Means of ignition dis. ign. Kind of fuel used diesel oil on port
 Shaft, dia. of journals 350 Crank pin dia. 350 Crank Webs Mid. length breadth 520 Thickness parallel to axis 160
 as fitted 350 Mid. length thickness 160 Thickness around eyehole -
 Wheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thrust Shaft, diameter at collars as per Rule
 as fitted - as fitted - as fitted -
 be Shaft, diameter as per Rule Screw Shaft, diameter as per Rule Is the { tube { shaft fitted with a continuous tinier { 7
 as fitted - as fitted - as fitted -

Is the after end of the liner made watertight in the
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner
 Is an approved Oil Gland or other appliance fitted at the after end of the tube
 Length of Bearing in Stern Bush next to and supporting propeller
 peller, dia. Pitch No. of blades Material whether Moveable Total Developed Surface sq. feet
 hod of reversing Engines dis. by comp. air Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication
 Thickness of cylinder liners 49 mm Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with
 conducting material If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine
 ling Water Pumps, No. Is the sea suction provided with an efficient strainer which can be cleared within the vessel
 e Pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work
 ps connected to the Main Bilge Line No. and Size How driven
 a cooling water led to the bilges If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping
 gements

st Pumps, No. and size Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size 1 each, 90 m³/hr. 410
 wo independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge
 s, No. and size:—In Machinery Spaces In Pump Room
 olds, &c.
 pendent Power Pump Direct Suctions to the Engine Room Bilges, No. and size
 all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes Are the Bilge Suctions in the Machinery Spaces
 om easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges
 all Sea Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks
 they fixed sufficiently high on the ship's side to be seen without lifting the platform plates Are the Overboard Discharges above or below the deep water line
 they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate
 t pipes pass through the bunkers How are they protected
 t pipes pass through the deep tanks Have they been tested as per Rule
 all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
 e 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
 partment to another Is the Shaft Tunnel watertight Is it fitted with a watertight door worked from

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. No. of stages Diameters Stroke Driven by
 All Auxiliary Air Compressors, No. No. of stages Diameters Stroke Driven by
 Evenging Air Pumps, No. 2 each engine, rotary Diameter 350 m³/Min Stroke 735 Driven by main engine
 Auxiliary Engines crank shafts, diameter as per Rule No. Position
 as fitted



003599-003604-0307

AIR RECEIVERS:—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

High Pressure Air Receivers, No.

Cubic capacity of each

Internal diameter

thickness

Seamless, lap welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure by Rules
Actual

Starting Air Receivers, No.

Total cubic capacity

Internal diameter

thickness

Seamless, lap welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure by Rules
Actual

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 18.3.36/2.4.36. Receivers —

(If not, state date of approval)

Separate Fuel Tanks

Donkey Boilers

General Pumping Arrangements

Pumping Arrangements in Machinery Space

Oil Fuel Burning Arrangements

SPARE GEAR.

Has the spare gear required by the Rules been supplied yes

State the principal additional spare gear supplied as per Rules.

The foregoing is a correct description,
Maschinenfabrik Augsburg-Nürnberg A.-G.

Manufacturer.

1936. June 8, July 27, Aug. 14, 15, 29, 31, Sep. 2, 4, 7, 10, 11, 12, 14, 18, 22, 23, 25, 30 Oct. 1, 2, 3, 5, 6, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31. Nov. 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30. Dec. 2, 3, 4, 5, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31. Jan. 4, 5, 6, 7, 8, 13, 15, 16, 18, 19, 20, 28, 29, 30. Feb. 1, 2, 3, 4, 5, 9, 11, 12, 13, 15.

Dates of Survey while building { During progress of work in shops -
During erection on board vessel - -
Total No. of visits 117.

Dates of Examination of principal parts—Cylinders 17.11/2.12/3.2.36. Pistons 10/23. 11.36. Rods — Connecting rods 22.10/19.11.

Crank shaft 3.9/27.10.36 Flywheel shaft Thrust shaft Intermediate shafts Tube shaft

Screw shaft Propeller Stern tube Engine seatings Engines holding down bolts

Completion of fitting sea connections Completion of pumping arrangements Engines tried under working conditions

Crank shaft, Material S. H. Steel Identification Mark KH. 16460 3.9.36 Flywheel shaft, Material Identification Mark

Thrust shaft, Material Identification Mark Intermediate shafts, Material Identification Marks

Tube shaft, Material Identification Mark Screw shaft, Material Identification Mark

Is the flash point of the oil to be used over 150° F.

Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with

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 Yard 164 Deutsche Kraft A.G. (Engl. 100 mm strokes).

General Remarks (State quality of workmanship, opinions as to class, &c.) These heavy oil main engines have been constructed

under special survey in accordance with the Soc. Rules and Regulations, as well as with the approved plans and instructions thereto. The material used in the construction is good and the workmanship is satisfactory. The two engines have been tested on the makers test bed during 24 hours running under full load and 10% overload, and part loads in the presence of the undersigned and were found to be in safe working conditions during these trials. After the trials the engines have been opened out for inspection and all parts were found in order.

In my opinion the vessel for which these engines are intended will be eligible for notation of +L.M.C. (with date) when the whole machinery has been fitted satisfactorily on board and tried under full working conditions.

The amount of Entry Fee 4/5 96.00

Special ... 4/5 2068.00

Donkey Boiler Fee 168.00

2 x Test bed trial Travelling Expenses (if any) 68.00

When applied for,

8.3.1934

When received,

3.4.37

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 7 MAY 1937

Assigned

See Ham. 76 223024



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