

REPORT ON OIL ENGINE MACHINERY.

No. 29649

Received at London Office

23 FEB 1928

21 JUN 1928

22 FEB 1928

Port of Sunderland.

Date, First Survey 26 Sep. '27 Last Survey 20 Feb 1928

Number of Visits 38

Tons: Gross Net

of writing Report

When handed in at Local Office

Survey held at Sunderland.

Single on the Twin Triple Screw vessels

at Haverston Hill, Sunderland.

By whom built Furness & Co. Ltd.

Yard No. 123 When built

By whom made William Douglas & Co. Ltd.

Engine No. 165 When made 1928.

By whom made

Boiler No. When made

Owners Gulf Refining Co.

Port belonging to

Horse Power 3600

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

Horse Power as per Rule 785

ENGINES, &c.

Type of Engines

Inford Offroad Piston

2 or 4 stroke cycle 2

Single or double acting Single

Pressure in cylinders 40 508

No. of cylinders 4

Diameter of cylinders 64 25 3/8

No. of cranks 4, 3

Length of stroke 1440 1040 = 97 5/8

Bearings, adjacent to the Crank, measured from inner edge to inner edge 1110 7/8

Is there a bearing between each crank Yes

Revolutions per minute 86

Flywheel dia. 275 5/8

Weight 14.7 tons

Means of ignition Compression

Kind of fuel used CRUDE OIL

Shaft, dia. of journals as per Rule 460 7/8

Crank pin dia. 500 7/8

Crank Webs

Mid. length breadth 700 7/8

Thickness parallel to axis 300 7/8

Intermediate Shafts, diameter as per Rule 460 7/8

Intermediate Shafts, diameter as fitted

Thrust Shaft, diameter at collars as per Rule

Shafts, diameter as fitted

Screw Shaft, diameter as fitted

Is the tube screw shaft fitted with a continuous liner

Liners, thickness in way of bushes as per Rule

Thickness between bushes as fitted

Is the after end of the liner made watertight in the

boss

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

Liners are fitted, is the shaft lapped or protected between the liners

Is an approved Oil Gland or other appliance fitted at the after

tube shaft

Length of Bearing in Stern Bush next to and supporting propeller

er, dia.

Pitch

No. of blades

Material

whether Moveable

Total Developed Surface

sq. feet

of reversing Engines Compression

Is a governor or other arrangement fitted to prevent racing of the engine when disconnected Yes

Thickness of cylinder liners 8 reinforcement

Are the cylinders fitted with safety valves Yes

Are the exhaust pipes and silencers water cooled or lagged with

ing material Yes

If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine

Water Pumps, No.

Is the sea suction provided with an efficient strainer which can be cleared within the vessel

umps fitted to the Main Engines, No.

Diameter

Stroke

Can one be overhauled while the other is at work

connected to the Main Bilge Line

No. and Size

How driven

Lubricating Oil Pumps, including Spare Pump, No. and size

dependent means arranged for circulating water through the Oil Cooler

Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

o. and size:—In Engine and Boiler Room

dent Power Pump Direct Suctions to the Engine Room Bilges, No. and size

Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes

Are the Bilge Suctions in the Machinery Space

asily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges

a Connections fitted direct on the skin of the ship

Are they fitted with Valves or Cocks

ed 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

h 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

pass through the bunkers

How are they protected

pass through the deep tanks

Have they been tested as per Rule

oes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

angement 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

to another

Is the Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

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

Compressors, No.

No. of stages

Diameters

Stroke

Driven by

Air Compressors, No.

No. of stages

Diameters

Stroke

Driven by

illary Air Compressors, No.

No. of stages

Diameters

Stroke

Driven by

g Air Pumps, No. One

Diameter

66"

Stroke

44"

Driven by Main Engine

Engines crank shafts, diameter as per Rule

as fitted

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule

What means are provided for cleaning their inner surfaces

rnal surfaces of the receivers be examined

Strain arrangement fitted at the lowest part of each receiver

sure Air Receivers, No.

Cubic capacity of each

Internal diameter

thickness

welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure by Rules

ir Receivers, No.

Total cubic capacity

Internal diameter

thickness

welded or riveted longitudinal joint

Material

Range of tensile strength

Working pressure by Rules

or to Lloyd's Register of

have been

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Survey and

suitable for

No 29649.

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