

REPORT ON OIL ENGINE MACHINERY.

No. 83331

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of writing Report. 10. When handed in at Local Office 29.9.28 Port of Newcastle-on-Tyne.
in Survey held at St. Peter's, Newcastle Date, First Survey 27 Feb. Last Survey 21 Sept 1928.
Book. Number of Visits 41.

SIGRID

Tons { Gross
Net

ilt at Ardrossan. By whom built Ardrossan D.D. & B. Ltd No. 340 When built 1928
gines made at Newcastle By whom made R.H. Hawthorn Leslie & Co Engine No. 3425 When made 1928
akey Boilers made at do By whom made do Boiler No. 3425 When made 1928
ake Horse Power 400 Owners A/B Oljetransport O/Y Port belonging to Helsingfors
m. Horse Power as per Rule 189 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes
ade for which vessel is intended Foreign.

ENGINES, &c. Type of Engines Hawthorn Works, Liverpool. 2 or 4 stroke cycle 4 Single or double acting Single
imum pressure in cylinders 500 lbs per sq. in. Diameter of cylinders 460 m.m. Length of stroke 900 m.m. No. of cylinders 6 No. of cranks 6
in of bearings, adjacent to the Crank, measured from inner edge to inner edge 640 m.m. Is there a bearing between each crank Yes
olutions per minute 150 Flywheel dia. 5-11 1/2 Weight 4.5 tons Means of ignition Compression Kind of fuel used Diesel oil
ank Shaft, dia. of journals as per Rule 292 m.m. Crank pin dia. 300 m.m. Crank Webs as per Rule 600 m.m. Thickness parallel to axis 200 m.m.
as fitted 300 m.m. Mid. length thickness 300 m.m. Thickness around eye hole 180 m.m.
ywheel Shaft, diameter as per Rule 292 m.m. Intermediate Shafts, diameter as per Rule 204 m.m. Thrust Shaft, diameter at collars as per Rule 214 m.m.
as fitted 300 m.m. as fitted 215 m.m. as fitted 215 m.m.
Shaft, diameter as per Rule 400 m.m. Screw Shaft, diameter as per Rule 224 m.m. Is the screw shaft fitted with a continuous liner Yes
as fitted 400 m.m. as fitted 254 m.m.
ze Liners, thickness in way of bushes as per Rule 14.4 m.m. Thickness between bushes as per Rule 10.8 m.m. Is the after end of the liner made watertight in the
as fitted 20.5 m.m. as fitted 12.5 m.m.
ler boss. If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner One length
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
o 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
f the tube shaft Yes Length of Bearing in Stern Bush next to and supporting propeller 1016 m.m.
eller, dia. 9-6" Pitch 4'-9" No. of blades 4 Material Steel whether Movable No Total Developed Surface 32 sq. feet
od of reversing Engines Compression Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication
can. Thickness of cylinder liners 32.5 m.m. Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with
conducting material Both If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine Exhaust up funnel
ling Water Pumps, No. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
e Pumps worked from the Main Engines, No. 2 Diameter 90 m.m. Stroke 230 m.m. Can one be overhauled while the other is at work Yes
aps connected to the Main Bilge Line { No. and Size 2 Bilge pumps } one Ball pump ap { one 4" & pump, 12 m. cap }
How driven above main engine } under main engine } Hand crank }
last Pumps, No. and size One 6" x 8" x 4" Lubricating Oil Pumps, including Spare Pump, No. and size 1-6" x 6" x 6" Steam
two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge
aps, No. and size:—In Machinery Spaces Four suction each 2 1/2" - one - 3" dia on main Bilge line
Holds, &c.

ependent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1-3"
e all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-bones Yes Are the Bilge Suctions in the Machinery Spaces
from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges
e all Sea Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks Yes
re they fixed sufficiently high on the ship's side to be seen without lifting the platform plates Yes Are the Overboard Discharges above or below the deep water line
re 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
hat pipes pass through the bunkers Yes How are they protected By a wooden box
hat pipes pass through the deep tanks Yes Have they been tested as per Rule Yes
re all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
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
partment to another Yes Is the Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Yes

a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork Yes
ain Air Compressors, No. One No. of stages 3 Diameters 90, 380, 440 m.m. Stroke 230 m.m. Driven by Main engines
uxiliary Air Compressors, No. One No. of stages 3 Diameters Remond type Stroke 4.5" Driven by Hand crank
mall Auxiliary Air Compressors, No. One No. of stages 3 Diameters Remond type Stroke 4.5" Driven by Hand crank
cavenging Air Pumps, No. One Diameter — Stroke — Driven by Hand crank

uxiliary Engines crank shafts, diameter as per Rule
as fitted —
IR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes
Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Access through manholes
Is there a drain arrangement fitted at the lowest part of each receiver Yes

High Pressure Air Receivers, No. 2 Cubic capacity of each 10 cu ft. Internal diameter 16" thickness 1/8"
Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 32/36 Tons Working pressure by Rules 2000 lbs
Starting Air Receivers, No. 2 Total cubic capacity 500 cu ft. Internal diameter 4-0 5/8" thickness 3/4"
Seamless, lap welded or riveted longitudinal joint Riveted Material Steel Range of tensile strength 28/32 Tons Working pressure by Rules 350 lbs

