

Rpt. 4b.

REPORT ON OIL ENGINE MACHINERY.

No. 78921

26 FEB 1925

Received at London Office

Date of writing Report 19: When handed in at Local Office 25/2/1925 Port of NEWCASTLE-ON-TYNE.

No. in Survey held at Reg. Book.

Date, First Survey 18 June 1923 Last Survey 18 Feb 1925

Number of Visits 98.

88683 on the Single }
Twin }
Triple } Screw vessels

"ENTON"

Tons { Gross 4310
Net 2680

Master Built at Harbin Hill-on-Tees By whom built Furness & Co. Ltd. Yard No. 50 When built 1924

Engines made at Newcastle By whom made Wallsend Slipway & Eng. Co. Ltd. Engine No. 853 When made 1925

Donkey Boilers made at Annan By whom made Cochran & Co. Annan Ltd. Boiler No. 916 When made 1924

Brake Horse Power 1800 on Service Owners The Fenwick Shipping Co. Ltd. Port belonging to London

Nom. Horse Power as per Rule 498 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

IL ENGINES, &c.—Type of Engines Sulzer Inverted Diesel 2 or 4 stroke cycle 2 Single or double acting Single

Maximum pressure in cylinders 500 lbs No. of cylinders 4 No. of cranks 4 Diameter of cylinders 680 mm

Length of stroke 1200 mm Revolutions per minute 90 Means of ignition Compression Kind of fuel used Diesel oil

Is there a bearing between each crank Yes Span of bearings (Page 92, Section 2, par. 7 of Rules) 920 mm

Distance between centres of main bearings 1350 mm Is a flywheel fitted Yes Diameter of crank shaft journals as per Rule 428 mm as fitted 460 mm

Diameter of crank pins 460 mm Breadth of crank webs as per Rule 570 mm as fitted 620 mm Thickness of ditto as per Rule 240 mm as fitted 255 mm

Diameter of flywheel shaft as per Rule 428 mm as fitted 460 mm Diameter of tunnel shaft as per Rule 12.45" as fitted 13.25" Diameter of thrust shaft as per Rule 332 mm as fitted 460 mm

Diameter of screw shaft as per Rule 13.72" as fitted 15" Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yes

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 joints burned

If 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. If without liners, is the shaft arranged to run in oil

Type of outer gland fitted to stern tube Length of stern bush 5'4" Diameter of propeller 15'6"

Pitch of propeller 13'1 1/2" No. of blades 4 state whether moveable solid Total surface 78 square feet

Method of reversing Hand Is a governor or other arrangement fitted to prevent racing of the engine when detached Yes Thickness of cylinder liners 50 mm

Are the cylinders fitted with safety valves Yes Means of lubrication gravity Are the exhaust pipes and silencers water cooled or lagged with

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

Led up funnel No. of cooling water pumps 3 Is the sea suction provided with an efficient strainer which can be cleared

within the vessel Yes No. of bilge pumps fitted to the main engines One Diameter of ditto 180 mm Stroke 1440 mm

Can one be overhauled while the other is at work No. of auxiliary pumps connected to the main bilge lines Three How driven Steam

Sizes of pumps One 10" x 12" x 12" - Two 6" x 6" x 6" No. and sizes of suctions connected to both main bilge pumps and auxiliary bilge pumps:—In engine room 1-3 1/2 4-2 1/2

and in holds, etc. No. of ballast pumps One How driven Steam Sizes of pumps 10" x 12" x 12"

Is the ballast pump fitted with a direct suction from the engine room bilges Yes State size 4 1/2" Is a separate auxiliary pump suction fitted in

Engine Room and size Yes - 3 1/2" Are all the bilge suction pipes fitted with roses Yes Are the roses in Engine Room always accessible Yes

Are the sluices on Engine Room bulkheads always accessible none Are all connections with the sea direct on the skin of the ship Yes

Are they valves or cocks Both Are they fixed sufficiently high on the ship's side to be seen without lifting the floor plates Yes

Are the discharge pipes 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 all pipes, cocks, valves and pumps in connection with the machinery accessible at all times Yes Are the bilge suction pipes, cocks and valves arranged so as to prevent any

communication between the sea and the bilges Yes Is the screw shaft tunnel watertight Yes Is it fitted with a watertight door Yes

Worked from Top platform If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

No. of main air compressors One No. of stages 3 Diameters 15 1/2" 6 1/2" 7 1/2" Stroke 600 mm Driven by main engine

No. of auxiliary air compressors One No. of stages 3 Diameters 3 1/2" 1 1/2" 1 1/4" Stroke 7" Driven by steam

No. of small auxiliary air compressors None No. of stages Diameters Stroke Driven by

No. of scavenging air pumps Two Diameter Intake Blower Stroke Driven by steam

Diameter of auxiliary Diesel Engine crank shafts as per Rule none as fitted Are the air compressors and their coolers made so as to be easy of access Yes

R RECEIVERS:—No. of high pressure air receivers Starting nine Internal diameter 17 1/2" Cubic capacity of each 18.35 ft³Material Steel Seamless, lap welded or riveted longitudinal joint Seamless tensile strength 28.8 ft² min

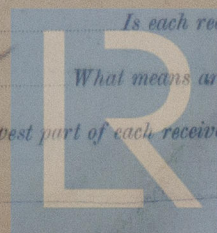
Thickness 5/8" working pressure by Rules 1000 lbs No. of starting air receivers One Internal diameter 48 1/2"

Total cubic capacity 195 ft³ Material Steel Seamless, lap welded or riveted longitudinal joint R.R. D.B.S.

Range of tensile strength 28/32 tons thickness 13/16 Working pressure by rules 350 lbs 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

Internal surfaces Steam Is there a drain arrangement fitted at the lowest part of each receiver Yes

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