

Messrs Pollock State that Newcastle
 Eng is intended for G.T. Gillies Ltd.

REPORT ON OIL ENGINE MACHINERY.

No. 1985

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pt. 4b

REMARKS.

Received at London Office

Date of writing Report 23 Oct 1920 When handed in at Local Office 19 Port of Stockholm

Date, First Survey 11 Jan 1918 Last Survey 10 Oct 1920
 Number of Visits 6

in Survey held at Stockholm

on the Single } Screw vessels
Twin }
Triple }

Master _____ Built at _____ By whom built _____ Yard No. _____ When built _____

Engines made at Stockholm By whom made J.C.G. Rohdees Co Ltd. Engine No. 14129/21 When made 1920

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

Indicated Horse Power 320 Owners Messrs James Pollock Sons & Co Port belonging to London
 (Pollock's order no 5625/6)

Indicated Horse Power as per Rule 91 Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

ENGINES, &c.—Type of Engines Bolinder Oil Engine 2 or 4 stroke cycle Single or double acting reversible

Maximum pressure in cylinders 264.5 lbs No. of cylinders 4 No. of cranks 4 Diameter of cylinders 420 mm 16 7/8"

Length of stroke 480 mm 18 7/8" Revolutions per minute 225 Means of ignition hot bulb Kind of fuel used Crude Oil

Is there a bearing between each crank Yes Span of bearings (Page 92, Section 2, par. 7 of Rules) 210 mm

Distance between centres of main bearings 840 mm Is a flywheel fitted Yes Diameter of crank shaft journals as per Rule 176 mm
as fitted 180 "

Diameter of crank pins 180 mm Breadth of crank webs as per Rule 234 mm Thickness of ditto as per Rule 98.5 mm
as fitted 270 " as fitted 105.0 "

Diameter of flywheel shaft as per Rule 178 mm Diameter of tunnel shaft as per Rule - Diameter of thrust shaft as per Rule 169 mm
as fitted - as fitted - as fitted 175 "

Diameter of screw shaft as per Rule - Is the screw shaft fitted with a continuous liner the whole length of the stern tube No
as fitted -

Is the after end of the liner made watertight in the propeller boss _____ If the liner is in more than one length are the joints burned _____

Does the liner do 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 _____

Are two liners 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 _____ Diameter of propeller _____

Method of reversing Timing Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Thickness of cylinder liners none fitted

Are the cylinders fitted with safety valves No Means of lubrication pumps Are the exhaust pipes and silencers water cooled or lagged with non-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 _____

No. of cooling water pumps none Is the sea suction provided with an efficient strainer which can be cleared _____

No. of bilge pumps fitted to the main engines _____ Diameter of ditto _____ Stroke _____

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

No. and sizes of suction connected to both main bilge pumps and auxiliary bilge pumps:—In engine room _____

No. of ballast pumps _____ How driven _____ Sizes of pumps _____

Is the ballast pump fitted with a direct suction from the engine room bilges _____ State size _____ Is a separate auxiliary pump suction fitted in engine room and size _____

Are all the bilge suction pipes fitted with roses _____ Are the roses in Engine Room always accessible _____

Are the sluices on Engine Room bulkheads always accessible _____ Are all connections with the sea direct on the skin of the ship _____

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

Are the discharge pipes above or below the deep water line _____ Are they each fitted with a discharge valve always accessible on the plating of the vessel _____

Are all pipes, cocks, valves and pumps in connection with the machinery accessible at all times _____ Are the bilge suction pipes, cocks and valves arranged so as to prevent any communication between the sea and the bilges _____

Is the screw shaft tunnel watertight _____ Is it fitted with a watertight door _____

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 1 No. of stages 2 Diameters 275 mm / 100 mm Stroke 240 mm Driven by main engine

No. of auxiliary air compressors _____ No. of stages _____ Diameters _____ Stroke _____ Driven by _____

No. of small auxiliary air compressors _____ No. of stages _____ Diameters _____ Stroke _____ Driven by _____

No. of scavenging air pumps more fitted Diameter _____ Stroke _____ Driven by _____

Diameter of auxiliary Diesel Engine crank shafts as per Rule - Are the air compressors and their coolers made so as to be easy of access Yes
as fitted -

AIR RECEIVERS:—No of high pressure air receivers 1 Internal diameter 143 mm Cubic capacity of each 20 litres

Material S.M. Steel Seamless, lap welded or riveted longitudinal joint Seamless Range of tensile strength min. 23 tons per inch

Thickness 4.5 mm Working pressure by Rules 517 lbs No. of starting air receivers 3 Internal diameter 434 mm

Total cubic capacity 296 litres each Material S.M. Steel Seamless, lap welded or riveted longitudinal joint lap welded

Range of tensile strength min. 23 tons per inch thickness 8 mm Working pressure by rules 260 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 inner surfaces manhole Is there a drain arrangement fitted at the lowest part of each receiver Yes

