

REPORT ON OIL ENGINE MACHINERY.

No. 33361
TUE APR. 25 1922

Report	to	When handed in at Local Office	19/4/1922	Port of	Hull.	Received at London Office
Survey held at	Hull	Date, First Survey	21.3.22	Last Survey	18/4/1922	Number of Visits 8
Single	Screw vessels	LIZZIE & ANNIE.				Tons Gross 119 Net 85
the Twin						
Triple						
Built at	North Shields	By whom built	J. Lothrop & Sons Ltd.	Yard No.	When built	1877
at	Newbury	By whom made	Plenty & Sons Ltd.	Engine No.	When made	1913
sters made at		By whom made		Boiler No.	When made	
Power	95	Owners	G. F. Birch & Son (1919) Ltd.	Port belonging to	Hull	
Power as per Rule 27.		Is Refrigerating Machinery fitted for cargo purposes	No	Is Electric Light fitted	No.	

NES, &c.—Type of Engines Kromhout hot bulb. 2 or 4 stroke cycle 2 Single or double acting single
 are in cylinders 200 250 No. of cylinders 2 No. of cranks 2 Diameter of cylinders 13 3/8"
13 3/8" 13 3/8" Revolutions per minute 275 Means of ignition Hot bulb Kind of fuel used gas oil
 ag between each crank yes Span of bearings (Page 92, Section 2, par. 7 of Rules) 14"
 n centres of main bearings 2-0 Is a flywheel fitted yes Diameter of crank shaft journals as per Rule
 ink pins 4 3/4" as fitted 4 3/4" Breadth of crank webs as per Rule
 wheel shaft as per Rule as fitted 4 3/4" Diameter of tail shaft as per Rule
 screw shaft as per Rule as fitted 3 1/2" TOP OF CONE Is the screw shaft fitted with a continuous liner the whole length of the stern tube No liners
3 1/2" BODY. NOTE DIA TAIL END. If the liner is in more than one length are the joints burned —
 of the liner made watertight in the propeller boss —
 is 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 —
 re fitted, is the shaft lapped or protected between the liners — If without liners, is the shaft arranged to run in oil No
 gland fitted to stern tube none Length of stern bush 1-3" Diameter of propeller 3-10"
 ter 4-6" No. of blades 4 state whether moveable No Total surface square feet
 using gear Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Thickness of cylinder liners 1 1/2"
 rs fitted with safety valves No Means of lubrication forced feed. Are the exhaust pipes and silencers water cooled or lagged with
 material Water-C. If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine
 sel exhaust. —
 No. of cooling water pumps 1 Is the sea suction provided with an efficient strainer which can be cleared
 d yes No. of bilge pumps fitted to the main engines one Diameter of dillo 2 1/2" Stroke 2"
 hauled while the other is at work — No. of auxiliary pumps connected to the main bilge lines none Hand pump How driven —
 had 2 1/2" No. and sizes of suctions connected to both main bilge pumps and auxiliary bilge pumps:—In engine room 1 2 1/4"
 ic. Hand pumps & valves No. of ballast pumps none How driven — Sizes of pumps —
 pump fitted with a direct suction from the engine room bilges — State size — Is a separate auxiliary pump suction fitted in
 and size — Are all the bilge suction pipes fitted with roses yes Are the roses in Engine Room always accessible yes
 on Engine Room bulkheads always accessible yes Are all connections with the sea direct on the skin of the ship yes
 or cocks Both Are they fixed sufficiently high on the ship's side to be seen without lifting the floor plates yes
 ge 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
 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
 between the sea and the bilges yes Is the screw shaft tunnel watertight none 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 —
 er compressors — No. of stages — Diameters — Stroke — Driven by —
 y air compressors — No. of stages — Diameters — Stroke — Driven by —
 auxiliary air compressors 1 No. of stages 2 Diameters 3" & 2" Stroke 4" Driven by Hand.
 ng air pumps Crank case scavenging. Diameter — Stroke — Driven by —
 tiliary Diesel Engine crank shafts as per Rule yes Are the air compressors and their coolers made so as to be easy of access yes

EIVERS:—No of high pressure air receivers Two Internal diameter 9" Cubic capacity of each 2.2 ft³
two. Seamless, lap welded or riveted longitudinal joint Welded Range of tensile strength —
 working pressure by Rules No. of starting air receivers Internal diameter
 sily Material Seamless, lap welded or riveted longitudinal joint
 strength thickness Working pressure by rules Is each receiver, which can be isolated,
 y valve as per Rule yes Can the internal surfaces of the receivers be examined yes What means are provided for cleaning their
 Flange doors Is there a drain arrangement fitted at the lowest part of each receiver



IS A DONKEY BOILER FITTED?

No.

If so, is a report now forwarded?

HYDRAULIC TESTS:-

DESCRIPTION.	DATE OF TEST.	WORKING PRESSURE.	TEST PRESSURE.	STAMPED.	REMARKS.
ENGINE CYLINDERS					
" COVERS					
" JACKETS					
" PISTON WATER PASSAGES					
MAIN COMPRESSORS—1st STAGE					
" 2nd					
" 3rd					
AIR RECEIVERS-STARTING					
" INJECTION					
AIR PIPES					
FUEL PIPES					
FUEL PUMPS					
SILENCER					
" WATER JACKET					
SEPARATE FUEL TANKS					

PLANS. Are approved plans forwarded herewith for shafting
(If not, state date of approval)

See Letter 3/3/22.

Receivers

Separate Tanks

SPARE GEAR Two hot bolts & covers, one set spare valves for jets, 1 set piston rod glands, 1 spare fuel pump, 1 set valves for circulating & bilge pump, spare lengths of pipe & couplings. A quantity of smaller bolts & nuts.

Not on board & not produced. 2 connecting rods top & bottom end bolts & nuts, 2 main bearings & 1 set implying both & nuts

The foregoing is a correct description,

HICKNESSES OF PLATE

Manufacturer.

Dates of Survey while building	During progress of work in shops - - - During erection on board vessel - - - Total No. of visits
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Dates of Examination of principal parts—Cylinders 21/3/22 Covers 21/3/22 Pistons 21/3/22 Rods 12/4/22 Connecting rods 12/4/22
 Crank shaft 12/4/22 Thrust shaft 12/4/22 Tunnel shafts ✓ Screw shaft 11/4/22 Propeller 11/4/22 Stern tube 11/4/22 Engine sealings 12/4/22
 Engines holding down bolts 12/4/22 Completion of pumping arrangements 12/4/22 Engines tried under working conditions
 Completion of fitting sea connections 11/4/22 Stern tube 11/4/22 Screw shaft and propeller 11/4/22
 Material of crank shaft Steel Identification Mark on Do. ✓ Material of thrust shaft Steel Identification Mark on Do. ✓
 Material of tunnel shafts ✓ Identification Marks on Do. ✓ Material of screw shafts Steel Identification Marks on Do. ✓

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

Is this machinery duplicate of a previous case No If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c.) The tail end shaft is of steel with no liners running in a cast iron bush with no dust gland, and it is stated was fitted new in 1920. The rest of the machinery was fitted new in 1913 and it is stated the engines have been running since then with satisfactory results. The machine is in a good & efficient condition; it was not built under special survey but the workmanship & materials appear good and eligible in my opinion for the favorably consideration of the Committee. To the notation LMC with date for coating between Hull & Rings & fun & subject to the same gear being completed.

The amount of Entry Fee ... £ : When applied for.
 Special ... £ : 19
 Donkey Boiler Fee ... £ : When received.
 Travelling Expenses(if any) £ : 19

Engineer Surveyor to Lloyd's Register of Shipping.

Hawthorne

Committee's Minute

TUE JUN 4 1923

Assigned

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Lloyd's Register
Foundation