

Date of writing Report 1st July, 1930 When handed in at Local Office 3rd July, 1930 Port of GLASGOW.
 No. in Survey held at Glasgow Date, First Survey 9. 12. 29 Last Survey 30-6-1930.
 Reg. Book. 84463 on the Single Screw vessel "SILVERTEAK" Tons { Gross Net
 Built at Belfast By whom built Harland & Wolff Ltd. Yard No. 884. When built 1930.
 Owners Silver Line Ltd. Port belonging to London

Oil Engines made at Glasgow By whom made Harland & Wolff Ltd. Contract No. 884-1. When made 1930.
 Generators made at Sunderland By whom made Sunderland Engineering Co. Contract No. When made 1930
 No. of Sets 4. Engine Brake Horse Power 151 each Nom. Horse Power as per Rule 172 Total Total Capacity of Generators 400 Kilowatts.

OIL ENGINES, &c.—Type of Engines Diesel, Vertical Reciprocating 2 or 4 stroke cycle 4 Single or double acting Single
 Maximum pressure in cylinders 500 lb./in.² Diameter of cylinders 230 mm. Length of stroke 380 mm. No. of cylinders 6 No. of cranks 6
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 302 mm. Is there a bearing between each crank yes
 Revolutions per minute 300 Flywheel dia. 1225 mm. Weight 1.08 tons Means of ignition compression Kind of fuel used Diesel
 Crank Shaft, dia. of journals as per Rule 132 mm. as fitted 140 mm. Crank pin dia. 140 mm. Crank Webs Mid. length breadth 335 mm. Thickness parallel to axis solid
 as fitted 132 mm. Mid. length thickness 78 mm. Thickness around eye hole joined.
 Flywheel Shaft, diameter as per Rule 132 mm. as fitted 140 mm. Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 18 to 14 mm.
 Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication Toned & gravity.
 Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged.
 Cooling Water Pumps, No. Ship's System Is the sea suction provided with an efficient strainer which can be cleared within the vessel
 Lubricating Oil Pumps, No. and size One of each engine — each 2 tons/hr.
 Air Compressors, No. None No. of stages Diameters Stroke Driven by
 Scavenging Air Pumps, No. None Diameter Stroke Driven by

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Swivel plug; safety valve on pipe line.
 Can the internal surfaces of the receivers be examined yes What means are provided for cleaning their inner surfaces Loose ends.
 Is there a drain arrangement fitted at the lowest part of each receiver yes.
 High Pressure Air Receivers, No. None Cubic capacity of each Internal diameter thickness
 Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules
 Starting Air Receivers, No. One Total cubic capacity 150 litres Internal diameter 295 mm. thickness .71 in. = 18mm
 Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 28,320 lb./in.² Working pressure by Rules 1680 lb./in.²

ELECTRIC GENERATORS:—Type Open type.
 Pressure of supply 220 volts. Load 455 (each) Amperes. Direct or Alternating Current Direct.
 If alternating current system, state frequency of periods per second
 Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off yes.
 Generators, do they comply with the requirements regarding rating yes are they compound wound yes
 are they over compound yes 5 per cent. , if not compound wound state distance between each generator
 is an adjustable regulating resistance fitted in series with each shunt field yes Are all terminals accessible, clearly marked, and furnished with sockets yes
 are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched yes Are the lubricating arrangements of the generators as per Rule yes

PLANS. Are approved plans forwarded herewith for Shafting 12th Oct. 1929 Receivers No Separate Tanks None
 SPARE GEAR As per attached list — In accordance with the Rules and in excess.

The foregoing is a correct description,
 For HARLAND & WOLFF, LTD.
[Signature] Manufacturer.
 MANAGER FINNIESTON WORKS.

Dates of Survey while building { During progress of work in shops - -) 19 29 Dec 9. 10. 20 (1930) Feb 14. 20. 26 Mar 3. 7. 19 Apr 16. 28 May 6. 7. 20. 23 30 June
 { During erection on board vessel - - -) 18 30
 Total No. of visits 18

Dates of Examination of principal parts—Cylinders 7-5-30 Covers 7-5-30 Pistons 16-4-30 Piston rods 16-4-30
 Connecting rods 16-4-30 Crank and Flywheel shafts { 20-2-30, 3-3-30 }
 { 26-2-30, 7-3-30 } Intermediate shaft None.

Crank and Flywheel shaft, Material Steel Identification Mark 2740, 2880 Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case Yes If so, state name of vessel M.V. "Silverwalnut"

General Remarks (State quality of workmanship, opinions as to class, &c.) These four 6-cylinder Auxiliary Diesel Engines have been built under Special Survey in accordance with this Society's Rules. The material & workmanship are good. They have been tried on the test bed under full power load with satisfactory results. The Engines & their generators have been forwarded to Belfast to be fitted in the vessel.

These engines have been efficiently fastened on seats in the motor room of the vessel and tried out under full working conditions with satisfactory results.

R Lee Amess
 Belfast

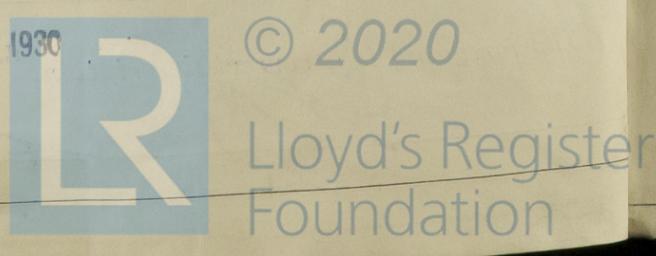
[Faint handwritten notes and signatures in the lower section of the page]

The amount of Fee ... £ 17 : 4 :
 Travelling Expenses (if any) £ - : - :
 When applied for, 7 - JUL 1930
 When received, 24.9.30

J. D. Boyle
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 8 - JUL 1930
 Assigned Deferred

FRI. 26 SEP 1930



3-7-30

100,730-Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)