

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

Sen No. 90,384

30 SEP. 1926

Date of writing Report 16 AUG 1926 When handed in at Local Office 16 AUG 1926 Port of London
 No. in Survey held at Bedford Date, First Survey March 24th Last Survey Aug. 9th 19 26
 Reg. Book. Single on the Twin Screw vessel "SILVERASH" Number of Visits Eleven
 Built at Sunderland By whom built Mr. J. L. Thompson Ltd. Yard No. 555 When built 1926
 Owners Silver Line Ltd. (J. L. Thompson Ltd. Mgrs.) Port belonging to London
 Oil Engines made at Bedford By whom made Messrs. W. H. Allen & Sons Contract No. 39501 When made 1926
 Generators made at Sunderland By whom made Mr. J. L. Thompson Ltd. Contract No. 39501 When made 1926
 No. of Sets 3 Engine Brake Horse Power 41 Nom. Horse Power as per Rule 41 Total Capacity of Generators 300 Kilowatts.

OIL ENGINES, &c.—Type of Engines Diesel 2 or 4 stroke cycle 4 Single or double acting S.A.
 Maximum pressure in cylinders 530 lbs. Diameter of cylinders 300^{mm} Length of stroke 430^{mm} No. of cylinders 3 No. of cranks 3
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 360^{mm} Is there a bearing between each crank Yes
 Revolutions per minute 300 Flywheel dia. 1600^{mm} Weight 4 tons Means of ignition Compression Kind of fuel used Heavy oil
 Crank Shaft, dia. of journals 166^{mm} as per Rule 180^{mm} as fitted 180^{mm} Crank pin dia. 180^{mm} Mid. length breadth 230^{mm} Thickness parallel to axis Solid forged
 Flywheel Shaft, diameter 180^{mm} as per Rule 180^{mm} as fitted 180^{mm} Intermediate Shafts, diameter 180^{mm} as per Rule 180^{mm} as fitted 180^{mm} Thickness around eye 25^{mm}
 Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Mechanical forced
 Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Yes
 Cooling Water Pumps, No. 2 Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
 Lubricating Oil Pumps, No. and size Driven from Engine
 Air Compressors, No. 3 No. of stages 3 Diameters 46/195/220^{mm} Stroke 180^{mm} Driven by Crank
 Scavenging Air Pumps, No. 1 Diameter 180^{mm} Stroke 180^{mm} Driven by Crank
AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Insible Plug
 Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Yes
 Is there a drain arrangement fitted at the lowest part of each receiver Yes
 High Pressure Air Receivers, No. 3 Cubic capacity of each 35 litres Internal diameter 7 1/4" thickness 3/8"
 Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 28-32 Working pressure by Rules 28-32
 Starting Air Receivers, No. 3 Total cubic capacity 150 litres Internal diameter 12" thickness 1/2"
 Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 28-32 Working pressure by Rules 28-32
ELECTRIC GENERATORS:—Type Two bearing open, drip proof, 6 pole.
 Pressure of supply 220 volts. Load 455 Amperes. Direct or Alternating Current Direct
 If alternating current system, state frequency of periods per second 50
 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 with interpoles
 are they over compounded 5 per cent. Level compounding if not compound wound state distance between each generator Yes
 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 12/2/26 retained for repair order. Receivers Yes Separate Tanks Yes
 (If not, state date of approval)

SPARE GEAR

See attached List.

The foregoing is a correct description,
FOR W.H. ALLEN SONS & CO. LTD.

Aurteid 9/8/26

Manufacturer.



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010783-010790-0292

010783-010790-0293

Dates of Survey while building { During progress of work in shops - 1926:- Mar 24 Apr 6-22 May 17 June 18 July 1-12 16-20-23 Aug 9
During erection on board vessel -
Total No. of visits 11 (IN SHOPS).

Dates of Examination of principal parts—Cylinders 18-6-26 Covers 18-6-26 Pistons 1-7-26 Piston rods ✓
Connecting rods 24-3-26, 7-4-26, 22-4-26 Crank and Flywheel shaft 18-6-26 Intermediate shaft ✓
Crank and Flywheel shaft, Material Steel Identification Mark See below. Intermediate shafts, Material ✓ Identification Marks ✓
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.)

Identification marks on Crank Shafts.

N^o 3 Eng. LLOYDS N^o 7565 J.P.
LR
18-6-26

N^o 2 Eng. LLOYDS N^o 1071
LR
18-6-26

N^o 1 Eng. LLOYDS 7567 J.P.
29-4-26
LR
18-6-26.

This Machinery has been constructed under special survey in accordance with approved plans and Rule requirements. The workmanship & material, so far as can be seen, are good and satisfactory bench trials have been carried out under survey.

The three sets which are numbered 39501/1/2/3 have been despatched to Sunderland where they are to be installed and, in my opinion, will be eligible for inclusion in the Classification and record of + L M C of the vessel. The installation has been tried under full working conditions with satisfactory results. The spare gear was examined for notation see machinery report.

The amount of Fee ... £ 22-1-0 When applied for, 18 AUG 1926
Travelling Expenses (if any) £ 8-17-9 When received, 9-10-19 26 RSW.

Richard A. Chalmers.
Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 5 OCT 1926

TUES. 15 NOV 1927

Assigned see Minute on
Sld & E. Rpt 2932



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