

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13604

Received at London Office 23 JAN 1937

Date of writing Report 19 When handed in at Local Office 19 Port of BRISTOL

No. in Survey held at DURSLEY Date, First Survey 15th Sept. 1936 Last Survey 15th Jan. 1937
Reg. Book. Number of Visits 4

on the ^{Single} ^{Twin} ^{Triple} ^{Quadruple} Screw vessel *Kulus Armstrong Yard No 726* Tons { Gross _____ Net _____

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

Owners _____ Port belonging to _____

Oil Engines made at *Dursley* By whom made *R. A. Lester & Co. Ltd.* Contract No. *60/3/2* When made *1937*

Generators made at _____ By whom made *Metropolitan Vickers* Contract No. *23846* When made _____

No. of Sets *2* Engine Brake Horse Power *38* Nom. Horse Power as per Rule _____ Total Capacity of Generators *30* Kilowatts.

OIL ENGINES, &c.—Type of Engines *4 SCSA airless injection* 2 or 4 stroke cycle *4* Single or double acting *single*

Maximum pressure in cylinders *750 lbs* Diameter of cylinders *4 1/2* Length of stroke *5 1/2* No. of cylinders *4* No. of cranks *4*

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge *14 9/16* Is there a bearing between each crank *No*

Revolutions per minute *1000* Flywheel dia. *26* Weight *328 lbs* Means of ignition *Compression* Kind of fuel used *Coal*

Crank Shaft, dia. of journals ^{as per Rule} *3* Crank pin dia. *3* Crank Webs ^{Mid. length breadth} *4 1/2* ^{Thickness parallel to axis} *shrink*

Flywheel Shaft, diameter ^{as per Rule} *3* Intermediate Shafts, diameter ^{as per Rule} _____ Thickness of cylinder liners *3/16*

Is a governor or other arrangement fitted to prevent racing of the engine when declutched *Yes* Means of lubrication *Grease*

Are the cylinders fitted with safety valves *Yes* Are the exhaust pipes and silencers water cooled or lagged with non-conducting material *No*

Cooling Water Pumps, No. *one plunger type* Is the sea suction provided with an efficient strainer which can be cleared within the vessel _____

Lubricating Oil Pumps, No. and size _____

Air Compressors, No. _____ No. of stages _____ Diameters _____ Stroke _____ Driven by _____

Scavenging Air Pumps, No. _____ Diameter _____ Stroke _____ Driven by _____

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule _____

Can the internal surfaces of the receivers be examined _____ What means are provided for cleaning their inner surfaces _____

Is there a drain arrangement fitted at the lowest part of each receiver _____

High Pressure Air Receivers, No. _____ 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. _____ Total cubic capacity _____ Internal diameter _____ thickness _____

Seamless, lap welded or riveted longitudinal joint _____ Material _____ Range of tensile strength _____ Working pressure by Rules _____

ELECTRIC GENERATORS:—Type *Metropolitan Compound Wound*

Pressure of supply *220* volts. Load *68* 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 _____

Generators, do they comply with the requirements regarding rating *Yes* are they compound wound *Yes*

are they over compounded 5 per cent. *Yes*, if not compound wound state distance between each generator _____

is an adjustable regulating resistance fitted in series with each shunt field _____ Are all terminals accessible, clearly marked, and furnished with sockets _____

are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched _____ Are the lubricating arrangements of the generators as per Rule *Yes*

PLANS. Are approved plans forwarded herewith for Shafting *No* Receivers *No* Separate Tanks *No*

SPARE GEAR _____

The foregoing is a correct description,

R. A. Lester & Co. (Manufacturers) Manufacturers.



© 2021

Lloyd's Register Foundation

W81-0094

Dates of Survey while building
 During progress of work in shops - -
 During erection on board vessel - - -
 Total No. of visits

1936
 15th Sept. 22. Dec. 1937
 Jan. 12. 15. — 4 visits.

Dates of Examination of principal parts—Cylinders 15/9/36 22/12/36 Covers 15/9/36 22/12/36 Pistons 15/9/36 22/12/36 Piston rods ✓
 Connecting rods 15/9/36 22/12/36 Crank and Flywheel shaft 15/9/36 22/12/36 Intermediate shaft ✓
 Crank and Flywheel shafts, Material Steel Identification Mark LLOYD'S TEST M526 JWG 12/1/37
 Intermediate shafts, Material ✓ Identification Marks LLOYD'S TEST M529 JWG 15/1/37

Is this machinery duplicate of a previous case If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.)

All parts of these engines have been examined before being assembled found satisfactory. They were afterwards tested on the test bed with satisfactory results.

Engine N° 60/312 being coupled to a 15 K.W. Mitsu Kuba Generator N° 22846 & a Pulsometer pump N° 26001

Engine N° 60/313 being coupled to a 15 K.W. Mitsu Kuba Generator N° 22840, a Pulsometer pump N° 25887 & also a two stage Hamworthy compressor N° 37630.

These sets are stated to be for Messrs Kuba, Armstrong's Yara N° 726.

The amount of Fee ... £ 6 : 6
 Travelling Expenses (if any) £ 1 : 3 6
 When applied for, 22nd Jan 1937.
 When received, 26/2/37

John W. Gwynne
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE 16 FEB 1937
 Assigned See minute on Br. 2645

