

677264.

Auxiliary

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 93.

Received at London Office

24 SEP 1934

of writing Report 20th Aug. 1934 When handed in at Local Office

Port of **DUSSELDORF**

in Survey held at **Cologne**

Date, First Survey 27th July 1934 Last Survey 15th Aug 1934

Number of Visits **Two**

on the **Single** Screw vessel
Triple
Quadruple

Genota

Tons { Gross
Net

at By whom built

Yard No. When built

rs **Anglo Saxon Petr. Co., London**

Port belonging to

Engines made at **Cologne**

By whom made **Humboldt-Deutzmotoren A.G.** Contract No. **313030/32** When made **1934**

ators made at

By whom made Contract No. When made

f Sets **A** Engine Brake Horse Power **28** Nom. Horse Power as per Rule **13** Total Capacity of Generators Kilowatts.

ENGINES, &c. Type of Engines **Heavy Oil Engine A. 3 M. 220** 2 or 4 stroke cycle **Single** or **double** acting

um pressure in cylinders **45 Kg. p. sq. mm** Diameter of cylinders **170 mm** Length of stroke **200 mm** No. of cylinders **Three** No. of cranks **Three**

bearings, adjacent to the Crank, measured from inner edge to inner edge **176 mm** Is there a bearing between each crank **Yes**

ns per minute **390** Flywheel dia. **850 mm** Weight **1,000 Kg** Means of ignition **Liquid injection** Kind of fuel used

shaft, dia. of journals as per Rule **120 mm** Crank pin dia. **110 mm** Crank Webs Mid. length breadth **160 mm** Thickness parallel to axis

as fitted **140 mm** Mid. length thickness **42.5 mm** Thickness around eyehole

el Shaft, diameter as per Rule Intermediate Shafts, diameter as fitted Thickness of cylinder liners **16 mm**

rior or other arrangement fitted to prevent racing of the engine when declutched **Yes** Means of lubrication **by pressure**

ylinders fitted with safety valves **Yes** Are the exhaust pipes and silencers water cooled or lagged with non-conducting material **water cooled**

Water Pumps, No. **One** Is the sea suction provided with an efficient strainer which can be cleared within the vessel

uting Oil Pumps, No. and size **1 Tooth Wheel Pump**

mpressors, No. No. of stages Diameters Stroke Driven by

ging Air Pumps, No. Diameter Stroke Driven by

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

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

a drain arrangement fitted at the lowest part of each receiver

ressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

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

g Air Receivers, No. **Two** Total cubic capacity **240 litres** Internal diameter **302 mm** thickness **8 mm**

, lap welded or riveted longitudinal joint **seamless** Materials **SM. Steel** Range of tensile strength **58.6 Kg. p. sq. mm** Working pressure by Rules **35 Kg. p. sq. mm**

TRIC GENERATORS:—Type

re of supply volts. Load Amperes. Direct or Alternating Current

ating current system, state frequency of periods per second

Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off

tors, do they comply with the requirements regarding rating are they compound wound

over compounded 5 per cent. , if not compound wound state distance between each generator

justable regulating resistance fitted in series with each shunt field Are all terminals accessible, clearly marked, and furnished with sockets

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

S. Are approved plans forwarded herewith for Shafting **7th June 1934** Receivers **7th July 1933** Separate Tanks

E GEAR as per Rules

The foregoing is a correct description,

Humboldt-Deutzmotoren

Aktiengesellschaft

Manufacturer.



© 2020

Lloyd's Register
Foundation

006160-006174-0084

ENE
2
Dates of Survey while building { During progress of work in shops - -
During erection on board vessel - - -
Total No. of visits *Two* *27th July and 15th August 1934*

Dates of Examination of principal parts—Cylinders *27.7.34* Covers *27.7.34* Pistons *15.8.34* Piston rods

Connecting rods Crank and Flywheel shaft Intermediate shaft

Crank and Flywheel shafts, Material *S.M. Steel*

Identification Mark *15474 K.F. 29.6.34*

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.) *The engine is built in accordance with*

approved plans and the requirements embodied in the Secretary's letter of the 7th July 1933 and 7th June 1934 in accordance with the requirements of the Rules. Materials and workmanship are of the best quality, the outfit is complete. The engine has ^{been} tested under full working conditions for about four hours on the trial stage in the machine shop and further an half hour with overload with satisfactory results. After trial all working parts have been opened up and were found on examination in good condition. This engine has been built under special survey and will be fitted on board a vessel owned by Messrs. Anglo-Siam-Pet. Co. London. In my opinion this machinery is eligible for notation of *LMC 9.34*

1m. 23 - Transfer.
(The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... *R.M. 105.00* When applied for, *3.12.19.34* *4m. No. 2522*
Travelling Expenses (if any) *R.M. 21.00* When received, *18/9.19.34*

Committee's Minute

TUE. 14 MAY 1935

Assigned

See Ham. J.E. 21508

Paul Shaw
Surveyor to Lloyd's Register of Shipping.



© 2020

Lloyd's Register
Foundation