

677264

Auxiliary

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS. No. 93.

Received at London Office 24 SEP 1934

Writing Report 20th Aug 1934 When handed in at Local Office 19 Port of **DUSSELDORF**
in Survey held at **Coloagne** Date, First Survey 27th July 1934 Last Survey 15th Aug 1934
Number of Visits **Two**

on the **Single** Screw vessel **Genota** Tons { Gross Net

at **Anglo Saxon Petr. Co., London** By whom built Yard No. When built

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

Generators made at By whom made Contract No. When made

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 1/2 220** 4 stroke cycle Single or double acting

Mean pressure in cylinders **45 kg. p. sq. cm.** 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**

Revolutions 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** as fitted **110 mm** Crank pin dia. **110 mm** Crank Webs Mid. length breadth **160 mm** Thickness parallel to axis

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

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

Cylinders 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

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

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

Operating 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

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

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

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

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

Is lap welded or riveted longitudinal joint **seamless** Material **SM. Steel** Range of tensile strength **58.6 kg. p. sq. cm.** Working pressure by Rules **35 kg. p. sq. cm.**

ELECTRIC GENERATORS:—Type

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

Operating 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

Generators, 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

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

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

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

Electric Gear as per Rules

The foregoing is a correct description,
Humboldt-Deutzmotoren
Aktiengesellschaft
[Signature]

Manufacturer.



006160-006174-0084

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

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

The amount of Fee ... RM. 105.00 When applied for, 3.12.19.34 Acc. No. 2522
 Travelling Expenses (if any) RM. 21.00 When received, 18/9.19.34

Paul Shaw
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 14 MAY 1935
 Assigned See Ham. J.E. 21508

