

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11175

Date of writing Report *29 October 1930* When handed in at Local Office *10* Port of **AMSTERDAM** Received at London Office *5 NOV 1930*
 No. in Survey held at **AMSTERDAM** Date, First Survey *11th July* Last Survey *15th Oct. 1930*
 Reg. Book. *Single* on the *Twin* Screw vessel **N.V. BURGERHOUT'S MACHINEFABRIEK & SCHEEPSWERF NO. 123** Number of Visits *7*

Built at **Rotterdam** By whom built **N.V. Burgerhout's Machinefabriek & Scheepswerf** Yard No. *123* When built *1930*
 Owners **Anglo Saxon Petroleum Co. Ltd.** Port belonging to **London** type **HS-2**
 Oil Engines made at **Amsterdam** By whom made **N.V. Kromhout Motoren Fabrik** No. *5733* When made *1930*
 Generators made at **Slikkerveer** By whom made **Electrotechnische Industrie Smit** Contract No. *-* When made *1930*
 No. of Sets *1* Engine Brake Horse Power *26/30* Nom. Horse Power as per Rule *8* Total Capacity of Generators *12* Kilowatts.

OIL ENGINES, &c.—Type of Engines *Bombardier oil En. m* 2 or 4 stroke cycle *Single or double acting*
 Maximum pressure in cylinders *35 kg/cm²* Diameter of cylinders *210 mm* Length of stroke *245 mm* No. of cylinders *1* No. of cranks *1*
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge *320 mm* Is there a bearing between each crank *-*
 Revolutions per minute *390* Flywheel dia. *1100 mm* Weight *1180 kg* Means of ignition *Comp. air* Kind of fuel used *Solar oil*
 Crank Shaft, dia. of journals *as per Rule* *160 mm* Crank pin dia. *110 mm* Crank Webs *Mid. length breadth 150 mm* Thickness parallel to axis *as fitted* *68.5 mm* Thickness around eyehole *as per Rule*
 Flywheel Shaft, diameter *as fitted* *Intermediate Shafts, diameter as fitted* Thickness of cylinder liners *as fitted*
 Is a governor or other arrangement fitted to prevent racing of the engine when declutched *Yes* Means of lubrication *from lubricator for cylinders as per Rule*
 Are the cylinders fitted with safety valves *Yes* Are the exhaust pipes and silencers water cooled or lagged with non-conducting material *Yes* As mentioned
 Cooling Water Pumps, No. *1* Is the sea suction provided with an efficient strainer which can be cleared within the vessel *-*
 Lubricating Oil Pumps, No. and size *1*
 Air Compressors, No. *1* No. of stages *1* Diameters *1* Stroke *1* Driven by *-*
 Scavenging Air Pumps, No. *1* Diameter *1* Stroke *1* 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. *1* Cubic capacity of each *1* Internal diameter *1* thickness *1*
 Seamless, lap welded or riveted longitudinal joint *-* Material *-* Range of tensile strength *-* Working pressure by Rules *-*
 Starting Air Receivers, No. *2* Total cubic capacity *200 L.* Internal diameter *325 mm* thickness *8 mm*
 Seamless, lap welded or riveted longitudinal joint *Seamless* Material *Steel* Range of tensile strength *28/31 ton* Working pressure by Rules *30 kg/cm²*

ELECTRIC GENERATORS:—Type *Smit Slikkerveer*
 Pressure of supply *110* volts. Load *109* 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 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 *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*
 LANS. Are approved plans forwarded herewith for Shafting *Refused* Receivers *by London Office* Separate Tanks *-*
 (If not, state date of approval) *1.5.30. & 18.7.30.*

SHAFTING AND GEAR

Set of piston rings. Studs for cylinder cover, 1 set of bottom end beam and bolts complete, 3 gudgeon pins, 3 steel studs for same, 1 fuel pump complete, fuel jets, 2 fuel injectors, 1 C. chamber, delivery pipe fuel pump, Springs for fuel pump valves, 2 valves for crank case, valves for cooling pumps. Studs in main bearing kegs, various gaskets.

The foregoing is a correct description.

N.V. KROMHOUT MOTOREN FABRIEK
D. Goedkoop Jr.

Manufacturer.



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Lloyd's Register
Foundation

W1043-0018

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

11/4. 4/6. 21/8. 24/8. 2/9. 15/9. 15/10/10

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Dates of Examination of principal parts—Cylinders 11/4 - 21/8 Covers 11/4 - 21/8 Pistons 11/4 - 26/8 Piston rods 11/4 - 26/8

Connecting rods 11/4 - 26/8 Crank and Flywheel shaft 11/4 - 26/8 Intermediate shaft 11/4 - 26/8

Crank and Flywheel shaft, Material *Steel* Identification Mark *A.K. 366. 107. 50* Intermediate shafts, Material *Steel* Identification Marks

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *at L. in. v. 5041/5.*

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

The engine has been constructed in accordance with the Rules, Secretary's letter and approved plans.

All material tubes as required and workmanship good.
 The engine has been tested under full working conditions on test bench and good.

The engine has been forwarded to Mr. E. Burchard's
 Machinefabrik, Schuymer, Rotterdam

The engine has been placed on board and examined under working condition and found in order

M. M. M. J.
3.

1m. 7. 28—Transfer.
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... £180:

Travelling Expenses (if any) £2.50

When applied for,

When received,

10. 11. 19. 30

P. W. Berman
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 27 JAN 1931

Assigned

See Rot. J.E. 19996



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 Foundation

his Certificate
 While the
 understood
 accuracy in
 tion of the
 Society."

10m. 8. 28.