

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12003

5 NOV 1930

Received at London Office

Date of writing Report 12 August 1930 When handed in at Local Office

Port of AMSTERDAM

No. in Survey held at AMSTERDAM

Date, First Survey 21 February Last Survey 4 August 1930

Reg. Book.

Number of Visits 10

 on the Single
Twin
Triple
Quadruple Screw vessel

G. BROWN & CO. LTD'S YARD NO. 175

ZWEENA

Tons

Gross

Net

Built at Greenock

By whom built G. Brown & Co. Ltd.

Yard No. 175

When built building

Owners Anglo-Saxon Petroleum Co. Ltd.

Port belonging to London

Oil Engines made at Amsterdam

By whom made Kromhout Motoren Fabriek

Contract No. 5807

When made 1930

Generators made at

By whom made

Contract No.

When made

No. of Sets 1

Engine Brake Horse Power 52/60

Nom. Horse Power as per Rule 10

Total Capacity of Generators

Kilowatts

 IL. ENGINES, &c. Type of Engines *Kromhout 2 H.P. II 2 stroke cycle* Single ~~or~~ double acting

 Maximum pressure in cylinders *35 1/2 lb. cm²* Diameter of cylinders *2 1/8 in.* Length of stroke *2 1/2 in.* No. of cylinders 2 No. of cranks 2

 Span of bearings, adjacent to the crank, measured from inner edge to inner edge *32 8/16 in.* Is there a bearing between each crank *Y*

 Revolutions per minute *390* Flywheel dia. *9 5/8 in.* Weight *850 lb.* Means of ignition *Congruent* Kind of fuel used *gas oil*

 Crank Shaft, dia. of journals *1 1/8 in.* as per Rule *Rule III-V* Crank pin dia. *1 1/8 in.* Mid. length breadth *1 5/8 in.* Thickness parallel to axis *1 1/8 in.* as fitted *1 1/8 in.* Crank Webs Mid. length thickness *1 1/8 in.* Thickness around eyehole *1 1/8 in.*

 Flywheel Shaft, diameter *1 1/8 in.* as per Rule *1 1/8 in.* Intermediate Shafts, diameter *1 1/8 in.* as fitted *1 1/8 in.* Thickness of cylinder liners *1 1/8 in.*

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

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

 Cooling Water Pumps, No. *1* Is the sea suction provided with an efficient strainer which can be cleared within the vessel *Y*

 Lubricating Oil Pumps, No. and size *1 from fuel for cylinders, 1 tooth wheel pump for bearings, crank pin lubrication*

 Air Compressors, No. *1* No. of stages *2* Diameters *8* Stroke *6* Driven by *Cham olind*

 Scavenging Air Pumps, No. *1* Diameter *1* Stroke *1* Driven by *1*

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

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

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

 High Pressure Air Receivers, No. *1* Cubic capacity of each *1* Internal diameter *1* thickness *1*

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

 Starting Air Receivers, No. *1* Total cubic capacity *1* Internal diameter *1* thickness *1*

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

 ELECTRIC GENERATORS:—Type *Engine Driven, worm gear for cargo pump, and aux compressor 42 ft.*

 Pressure of supply *Y* volts. Load *Y* Amperes. Direct or Alternating Current *Y*

 If alternating current system, state frequency of periods per second *Y*

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

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

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

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

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

 LANS. Are approved plans forwarded herewith for Shafting *Y* Receivers *Y* Separate Tanks *Y*

PARE GEAR

Piston with rings complete, cylinder head with valves complete, 2 quadrants pump, 2 roller plates, 1 set of bottom end brasses and bolts, 1 set of bearing brasses and bolts, 1 fuel pump complete, various lengths of pipe, 2 fuel injectors, 2 starting air valves, springs.

The foregoing is a correct description,

N.V. KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr.

Manufacturer.



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Lloyd's Register

WT064-0136

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

2/2. 18/3. 29/4. 1/5. 4/5. 16/6. 1/7. 15/7. 20/7. 4/8.

10

Dates of Examination of principal parts—Cylinders 2/2 - 1/4 Covers 2/2 - 1/4 Pistons 2/2 - 1/4 Piston rods L

Connecting rods 4/5 - 16/6 Crank and Flywheel shaft 25/4 - 4/8 Intermediate shaft L

Crank and Flywheel shaft, Material Steel Identification Mark 19446-K Intermediate shafts, Material L Identification Marks L

Is this machinery duplicate of a previous case No If so, state name of vessel L

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

The engines have been constructed under special Survey, in accordance with the approval plans and Secretary's letter. All motive tested as required, workmanship good. Engines tried under full working conditions on test bench and good.



The amount of Fee ... £ 180. -

Travelling Expenses (if any) £ 5. -

When applied for, 19...
When received, 19...
19th September 1930

P. V. Bennett
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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Im. 7. 23.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

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