

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12002

APR 1931

Received at London Office
 Date of writing Report *6 November 1930* When handed in at Local Office *19* Port of *AMSTERDAM* 14 NOV 1930
 No. in Survey held at *AMSTERDAM* Date, First Survey *12 March* Last Survey *30 October* 19*21*
 Reg. Book. Number of Visits *4*
 -- on the *Single* ~~Twin~~ ~~Triple~~ ~~Quadruple~~ *KROMHOUT OIL ENGINE NO. 5803, type HS-2* Tons { Gross -
 Net -
 Built at - By whom built - Yard No. - When built -
 Owners *Anglo Saxon Petroleum Co., Ltd.* Port belonging to *London*
 Oil Engines made at *Amsterdam* By whom made *N.V. Kromhout Motoren* Contract No. - When made *1930*
 Generators made at *Sunderland* By whom made *Sunderland Forge & Eng. Co.* Contract No. - When made *1930*
 No. of Sets *1* Engine Brake Horse Power *26* Nom. Horse Power as per Rule *8* Total Capacity of Generators *12* Kilowatts.

OIL ENGINES, &c.—Type of Engines *Kromhout oil engine* 2 ~~or 4~~ stroke cycle Single or double acting
 Maximum pressure in cylinders *35 lb./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 *328 mm* Is there a bearing between each crank *✓*
 Revolutions per minute *350* Flywheel dia. *1100 mm* Weight *1180 kg* Means of ignition *Refined air* Kind of fuel used *Solar oil*
 Crank Shaft, dia. of journals *as per Rule 110 mm* Crank pin dia. *110 mm* Crank Webs *Mid. length breadth 150 mm* Thickness parallel to axis *shrink*
as fitted 110 mm *Mid. length thickness 62.5 mm* Thickness around eyehole *Solar*
 Flywheel Shaft, diameter *as per Rule* Intermediate Shafts, diameter *as per Rule* Thickness of cylinder liners *✓*
as fitted *as fitted*
 Is a governor or other arrangement fitted to prevent racing of the engine when declutched *Yes* Means of lubrication *forced*
 Are the cylinders fitted with safety valves *Yes* Are the exhaust pipes and silencers water cooled or lagged with non-conducting material *Yes*
 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* *2 feeds for cylinders as 1 for bearings, electric in line system*
 Air Compressors, No. *✓* No. of stages *2* 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 *Yes*
 Can the internal surfaces of the receivers be examined *Yes* What means are provided for cleaning their inner surfaces *hand hole*
 Is there a drain arrangement fitted at the lowest part of each receiver *Yes*
 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. *2* Total cubic capacity *200 Liters* Internal diameter *325 mm* thickness *8 mm*
 Seamless, lap welded or riveted longitudinal joint *Seamless* Material *Steel* Range of tensile strength *30 tons/19"* Working pressure by Rules *46 lb./sq. in.*

ELECTRIC GENERATORS:—Type *Sunderland Forge*
 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*

PLANS. Are approved plans forwarded herewith for Shafting *Approved* Receivers *in London* Separate Tanks *off*
 (If not, state date of approval) *1.9.30 2.28.30*

SPARE GEAR *1 set of piston rings; studs for cylinder covers, 1 set of bottom end
 cross and bolts; 3 gudgeon pins, 3 steel holes for same; 1 fuel pump
 complete; 2 fuel jets, 2 fuel injectors, 1 c. chamber, springs and valves
 for fuel pump and for cooling pump; studs for main bearing kegs,
 various packings.*

The foregoing is a correct description.
 N.V. KROMHOUT MOTOREN FABRIEK
 D. Goedkoop Jr.

Manufacturer.



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Lloyd's Register
Foundation

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Dates of Survey while building { During progress of work in shops - 12/3 - 29/4 - 4/6 - 24/8 - 28/8 - 29/8 - 27/10 - 1910.
During erection on board vessel - - -
Total No. of visits 4

Dates of Examination of principal parts—Cylinders 12/3 - 24/8 Covers 12/3 - 24/8 Pistons 29/4 - 4/6 Piston rods -
Connecting rods 4/6 - 20/8 Crank and Flywheel shaft 4/6 - 28/8 Intermediate shaft -

Crank and Flywheel shafts, Material Steel Identification Mark Lloyd's R.S. CR: 441.

Intermediate shafts, Material L 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 has been constructed in accordance with the Rules, Secretary's letters and approved plans.
All material tested as required and found satisfactory.
The engine has been tested under full working conditions on test bench and found satisfactory.

The engine has been forwarded to Messrs.
R. W. Hawthorn Leslie & Co Ltd
Newcastle-on-Tyne.

This engine has been fitted in M.V. Helix - Messrs Hawthorn Leslie & Co Ltd Ship No 576 - and has been tested under working conditions and found satisfactory.
L. C. Clayton.

1m. 9. 28 - Transfer.
(The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 180.- : When applied for, 19...
Travelling Expenses (if any) £ 5.- : When received, 13. 11. 30

R. N. Bennett
Surveyor to Lloyd's Register of Shipping.

Committee's Minute
Assigned
FRI. 24 APR 1931
See F.C. Rpt.