

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12233

Date of writing Report *11 April* 19 *31* When handed in at Local Office *19* Port of *AMSTERDAM*
 Received at London Office *21 APR 1931*
 No. in Survey held at *AMSTERDAM* Date, First Survey *4 November 30* Last Survey *30 March 1931*
 Reg. Book. Number of Visits *2*

--- on the *Single* ~~XXXXXXX~~ *KROMHOUT OIL ENGINE NO. 6002, type HS-2* Tons { Gross -
 { Net -
 Triple
 Quadruple

Built at *Belfast* By whom built *Workman, Clark Ltd.* Yard No. *518* When built *1931*
 Owners *Anglo Saxon Petroleum Co., Ltd.* Port belonging to *London*
 Oil Engines made at *Amsterdam* By whom made *N.V. Kromhout Motoren Fabriek* Contract No. *--* When made *1931*
 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 *7* Total Capacity of Generators *16* Kilowatts.


IL ENGINES, &c. Type of Engines *Kromhout oil Eng.* 2 or 4 stroke cycle *Single or double acting*
 Maximum pressure in cylinders *35 1/2 p.s.i.* Diameter of cylinders *2 1/2 in.* Length of stroke *2 1/2 in.* No. of cylinders *1* No. of cranks *1*
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge *3 1/2 in.* Is there a bearing between each crank *-*
 Revolutions per minute *390* Flywheel dia. *1100 mm* Weight *1180 kg* Means of ignition *Compression* Kind of fuel used *Diesel 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 *4 mm*
as fitted 110 mm *Mid. length thickness 125 mm* Thickness around eyehole *4 mm*
 Flywheel Shaft, diameter *as per Rule 110 mm* Intermediate Shafts, diameter *as per Rule 110 mm* Thickness of cylinder liners *4 mm*
as fitted 110 mm *as fitted 110 mm*

Is a governor or other arrangement fitted to prevent racing of the engine when declutched *Yes* Means of lubrication *from*
 Are the cylinders fitted with safety valves *Yes* Are the exhaust pipes and silencers water cooled or lagged with non-conducting material *W. cooled*
 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 *One 2 inch for cylinders and one for bearing, complete*
 Air Compressors, No. *1* No. of stages *2* Diameters *1 1/2 in.* Stroke *1 1/2 in.* Driven by *1*
 Scavenging Air Pumps, No. *1* Diameter *1 1/2 in.* Stroke *1 1/2 in.* Driven by *1*

IR 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. *1* Cubic capacity of each *100 litres* Internal diameter *1 1/2 in.* thickness *1/8 in.*
 Seamless, lap welded or riveted longitudinal joint *1* Material *Steel* Range of tensile strength *45,000 lbs.* Working pressure by Rules *45 p.s.i.*
 Starting Air Receivers, No. *2* Total cubic capacity *200 litres* Internal diameter *3 1/2 in.* thickness *8 mm*
 Seamless, lap welded or riveted longitudinal joint *Standard* Material *Steel* Range of tensile strength *45,000 lbs.* Working pressure by Rules *45 p.s.i.*

ELECTRIC GENERATORS: Type *Sunderland Forge & Eng. Co.*
 Pressure of supply *110* volts. Load *145* Amperes. Direct or Alternating Current *Direct*
 If alternating current system, state frequency of periods per second *50*
 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 *Receivers in London* Separate Tanks *Office*
 (If not, state date of approval) *Secretary, letter 8. 1. 3. 30*

SPARE GEAR
1 set of piston rings, studs for cylinder covers; 1 set of bottom end bearings and bolts; 1 gudgeon pin, 2 steel plates, 1 fuel pump complete, 2 fuel jets, 1 combustion chamber, 2 pumps, valves for fuel pump, cooling pump, studs for main bearing, keys, various packings.

The foregoing is a correct description,
N.V. KROMHOUT MOTOREN FABRIEK
D. Goodkoop Jr. Manufacturer.
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Dates of Survey while building { During progress of work in shops - 4/11, 5/11, 10/11, 13/11, 25/11, 12/12, 30/12
During erection on board vessel - - -
Total No. of visits 4

Dates of Examination of principal parts - Cylinders 4/11 - 25/11, Covers 4/11 - 25/11, Pistons 4/11 - 25/11, Piston rods <
Connecting rods 4/11 - 13/11, Crank and Flywheel shaft 4/11 - 13/11, Intermediate shaft <

Crank and Flywheel shafts, Material Steel, Identification Mark Lloyd's. no.: 3494, M.K. 30.4.3

Intermediate shafts, Material <, Identification Marks
Is this machinery duplicate of a previous case Yes. If so, state name of vessel Eng. no.: 5435, Am. Reg. no.: 121

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

The engine has been constructed in accordance with the Rules, Sunday's letter and approved plan,
All material tested & required and workmanship good
The engine has been tested under full working conditions on test bench and good

The engine has been forwarded to Messrs. Workman, Clark & Loe, Belfast, for H. "Triton"

The amount of Fee ... £ 180.- : When applied for, 19...
Travelling Expenses (if any) £ 4.- : When received, 27.4.1931

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

Committee's Minute
Assigned

FRI. 1 JAN 1932
See Bel. 76 10750