

Cpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15847

Received at London Office DEC 29 1939

Date of writing Report 12 Dec 1939 When handed in at Local Office 19 Port of Amsterdam

No. in Survey held at Amsterdam Date, First Survey 25 Sept Last Survey 22 Nov 1939
Reg. Book.on the ^{Single} ~~Triple~~ ~~Quadruple~~ Screw vessel m.v. ECHODALE Tons ^{Gross} 8150
^{Net} 4788Built at New Castle-on-Tyne By whom built Hawthorn Leslie & Co^l Yard No. 620 When built 1939

Owners Port belonging to

Oil Engines made at Amsterdam By whom made N.V. Kromhout Motoren Contract No. 9539 When made 1939

Generators made at By whom made Contract No. When made

No. of Sets 1 Engine Brake Horse Power 32 Nom. Horse Power as per Rule 0 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines Kromhout Diesel 2-KS32 or 4 stroke cycle 2 Single or double acting Single

Maximum pressure in cylinders 55 kg/cm² Diameter of cylinders 170 mm Length of stroke 225 mm No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 274 mm Is there a bearing between each crank Yes

Revolutions per minute 400 Flywheel dia. 1100 mm Weight 475 kg Means of ignition Solid state Kind of fuel used Diesel-oil

Crank Shaft, dia. of journals as per Rule approved as fitted 95 mm Crank pin dia. 95 mm Crank Webs Mid. length breadth 150 mm Thickness parallel to axis shrunk
Mid. length thickness 55 mm Thickness around eyehole

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners

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

Cooling Water Pumps, No. 1 Rotary 8000 l/hour Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 12000 325 l/hour

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

Scavenging Air Pumps, No. Diameter Stroke Driven by

AIR RECEIVERS:—Have they been made under Survey Yes State No. of Report or Certificate

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 Cover

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. One Total cubic capacity 75 L Internal diameter 250 mm thickness 7 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material SM S Range of tensile strength 44-504 Working pressure by Rules 46.64
kt. 25 kg.

ELECTRIC GENERATORS:—Type

Pressure of supply volts. Full Load Current Amperes. Direct or Alternating Current

If alternating current system, state the periodicity Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off

Generators, are they compounded as per rule is an adjustable regulating resistance fitted in series with each

shunt field Are all terminals accessible, clearly marked, and furnished with sockets

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

If the generators are under 100 kw. full load rating, have the Makers supplied certificates of test and do the results comply with the requirements

If the generators are 100 kw. or over have they been built and tested under survey

PLANS. Are approved plans forwarded herewith for Shafting E 25-10-39 Receivers E 25-10-39 Separate Tanks

(If not, state date of approval)

SPARE GEAR

The foregoing is a correct description,

KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr. N.V.

Manufacturer.



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002583-002591-0191

Dates of Survey while building { During progress of work in shops - - } Sept 25-26-28, Oct 4-6-11-27, Nov 2-22.
{ During erection on board vessel - - - }
Total No. of visits

Dates of Examination of principal parts—Cylinders Oct 27-2 Nov Covers Oct 27-2 Nov Pistons 4-11 Oct Piston rods

Connecting rods 11-27 Oct Crank and Flywheel shafts Sept 20 Oct 11 Intermediate shafts

Crank and Flywheel shafts, Material S M S

Identification Marks

Intermediate shafts, Material

Identification Marks

Identification marks on Air Receivers

1910
Lloyd's test 5087M
W.P. 25 ATM
K.K. 11-5-38

6370
Lloyd's
HPB 20.9-39.

Is this machinery duplicate of a previous case? Yes If so, state name of vessel Milton-Fyfe and No 672 Ans up 15794

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

The engine has been built under special survey in accordance with approved plans & Secretary's letters and the Society's rules. Material & workmanship throughout good. The engine has been tested to full load on makers test bed & good.

The engine has been shipped to New Castle on Tyne and will be fitted aboard M/V Hawthorn & Leslie Yard No 648.

This engine has been satisfactorily installed with its Dynamo on board M/V. ECHODALE, H.L. Yard No 629, hp 3967. and examined under working conditions.

A. Watt
Newcastle on Tyne 6/3/41

The amount of Fee ...

Travelling Expenses (if any)

When applied for,

19-11-1939

When received,

15-2-1940

A. Watt

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

1 APR 1941

See Nwc. Rpt 99300



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