

pt. 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. Number of Visits 9

on the Single Screw vessel m.v. ECHODALE Tons Gross 8150
Triple
Quadruple Net 4788

Built at New Castle-on-Tyne By whom built Hawthorn & Leslie Ltd 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 Crank pin dia. 95 mm Crank Webs Mid. length breadth 150 mm Thickness parallel to axis shrunk
as fitted 95 mm Mid. length thickness 55 mm Thickness around eye-hole _____

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 _____

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 1 Rotary 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 46.6 kg/cm² at 25 deg

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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Lloyd's Register Foundation

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 28 Oct 11 Intermediate shafts

Crank and Flywheel shafts, Material SMS Identification Marks
 Intermediate shafts, Material Identification Marks 6370 Lloyd's HPB 20.9-39.
 Identification marks on Air Receivers 1918 Lloyd's test 5087M W.P. 25 APR 4 KK. 11-5-38

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *Milton-Fynewood Yard N^o 672 Am^o 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 duly tested workmanship throughout good. The engine has been tested to full load on makers test bed & good.

The engine has been shipped to New Cattleon Tyne and will be fitted aboard *Mess Hawthorn & Leslie Yard N^o 648.*

This engine has been satisfactorily installed with its Dynamo on board MV. ECHODALE, H.L. Yard No 629, Eng No 3967. and examined under working conditions.
Watt Newcastle on Tyne 6/3/41

The amount of Fee ... *£00*
 Travelling Expenses (if any) *£0*
 When applied for, 19-12-1939
 When received, 15-2-1940

H. Brodiffer
 Surveyor to Lloyd's Register of Shipping.

TUE 1 APR 1941

Committee's Minute
 Assigned

See Nwc. Rpt 99300



1 in. 5.37. - Transfer. (The Surveyors are requested not to write on or below the space for Committee Minutes.)