

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 24555

28 MAY 1936

Received at London Office

Date of writing Report 22-5-1936 When handed in at Local Office 19 Port of Rotterdam

No. in Survey held at Bolnes Date, First Survey 30-3-36 Last Survey 13-5-1936

Reg. Book. " Number of Visits 3

on the Single Double Triple Quadruple Screw vessel " Tons { Gross 53 Net 53

Built at Cadessa By whom built Messa Odense Skibsoff. Yard No. 50 When built 1936

Owners Messa v. Communi Port belonging to Rotterdam

Oil Engines made at Bolnes By whom made Mach. fab. Bolnes A. C. P. J. Contract No. " When made 1936

Generators made at Slikkerveer By whom made "Electro." Contract No. " When made "

No. of Sets one Engine Brake Horse Power 50 Nom. Horse Power as per Rule 14.5 Total Capacity of Generators 16 Kilowatts.

OIL ENGINES, &c.—Type of Engines Bolnes diesel engines 2 or 4 stroke cycle 2 Single or double acting single

Maximum pressure in cylinders 600 kg Diameter of cylinders 160 mm Length of stroke 240 mm No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 200 mm Is there a bearing between each crank Yes

Revolutions per minute 600 Flywheel dia. 800 mm Weight 0.6 tons Means of ignition compression Kind of fuel used diesel oil

Crank Shaft, dia. of journals as per Rule 75 as fitted 90 mm Crank pin dia. 90 mm Crank Webs Mid. length breadth 52 mm Thickness parallel to axis shrunk Mid. length thickness 144 mm Thickness around eyehole "

Flywheel Shaft, diameter as per Rule " as fitted " Intermediate Shafts, diameter as per Rule " as fitted " Thickness of cylinder liners 15 mm

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 45 x 45 mm Is the sea suction provided with an efficient strainer which can be cleared within the vessel "

Lubricating Oil Pumps, No. and size one turbine 10 l.p.m.

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

Scavenging Air Pumps, No. Sutton engine cyl. Diameter 160 mm Stroke 240 mm Driven by "

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule "

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

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

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 87 litres Internal diameter 302 mm thickness 8 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material SM. steel Range of tensile strength 44-50 kg Working pressure by Rules 45.6 kg

ELECTRIC GENERATORS:—Type G 320 Compound wound

Pressure of supply 115 volts. Load 140 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 "

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 " Are all terminals accessible, clearly marked, and furnished with sockets Yes

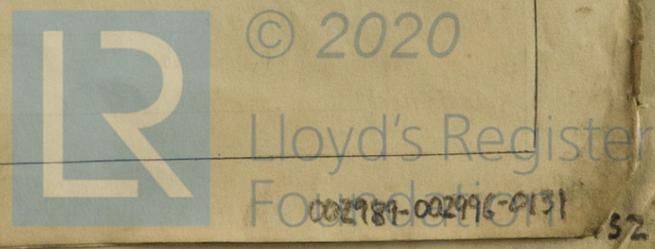
are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched " Are the lubricating arrangements of the generators as per Rule Yes

PLANS. Are approved plans forwarded herewith for Shafting 20-2-36 Receivers 31-3-36 Separate Tanks "

(If not, state date of approval)

SPARE GEAR as per Rule

The foregoing is a correct description,
 P. P. M. V. MACHINEFABRIEK „BOLNES“
 Rotterdam J. H. van CAPPELLEN
 Manufacturer.
 D. W. Wijnman



14
 11/6/36

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Dates of Survey while building { During progress of work in shops - - } 20/3 - 17/4 - 13/5-36
 { During erection on board vessel - - - }
 Total No. of visits 3

Dates of Examination of principal parts—Cylinders 20/3-17/4-36 Covers _____ Pistons 20/3-36 Piston rods 20/3-17/4-36

Connecting rods 20/3-17/4-36 Crank and Flywheel shaft 20-3-36 Intermediate shaft _____

Crank and Flywheel shaft, Material *SM Steel* Identification Mark *Blonds KK 22. CB-30-3-36* Intermediate shafts, Material _____ 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 workmanship material are good.*)

The engine has been built under Special Survey in accordance with the Rules and approved plans. Trials were carried out at the makers work under brake load with satisfactory results.

The engine has been forwarded to Adenae to be fitted on board of the Yacht No. 50. m/s. "Roosdrecht"

1m. 7.28—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee	£ 50.00	When applied for,	26.5.1936
Travelling Expenses (if any)	£ 2.50	When received,	8.6.36 ^{7/25} _{25/16}

W. H. Bounce
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute _____
 Assigned *See minute on J.S. Rpt.*

