

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 15902-B

Received at London Office 17 SEP 1945

Date of writing Report 30 May 1941 When handed in at Local office 19 Port of Amsterdam
 Date, First Survey 22 Nov 1939 Last Survey 9 May 1941
 No. in Survey held at Amsterdam Number of Visits 31
 Size of opening 32 mm on the Single Screw vessel Tons Gross
Triple Net
Quadruple
 Built at Krimpenerwaard By whom built G. v. d. Gutteren & Co Yard No. 667 When built 1941
 Owners Amsterdam Port belonging to Amsterdam
 Engines made at Amsterdam By whom made N.V. Werkspoor Contract No. 702/03 When made 1941
 Generators made at Hengelo By whom made N.V. Heerma Contract No. 110012/13 When made 1941
 No. of Sets 2 Engine Brake Horse Power 300 Nom. Horse Power as per Rule 2 x 5% Total Capacity of Generators 400 Kilowatts.

OIL ENGINES, &c. - Type of Engines P.M. 304 2 or 4 stroke cycle 4 Single or double acting single
 Maximum pressure in cylinders 4.5 kg/cm² Diameter of cylinders 300 mm Length of stroke 480 mm No. of cylinders 4 No. of cranks 4
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 390 mm Is there a bearing between each crank Yes
 Revolutions per minute 375 Flywheel dia. 1700 mm Weight 3270 kg Means of ignition solid magnet Kind of fuel used Diesel oil
 Crank Shaft, dia. of journals as per Rule approved Crank pin dia. 100 mm Crank Webs Mid. length breadth 770 mm Thickness parallel to axis as fitted 220 mm shank Solid forged
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners as fitted
 Is there 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 Water cooled
 Cooling Water Pumps, No. one rotary 15 ltr/hour Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes
 Lubricating Oil Pumps, No. and size 1 Rotary 3.3 ltr/hour
 Air Compressors, No. 1 No. of stages 3 Diameters 3.3 ltr/hour Stroke 3.3 ltr/hour Driven by 3.3 ltr/hour
 Scavenging Air Pumps, No. 1 Diameter 3.3 ltr/hour Stroke 3.3 ltr/hour Driven by 3.3 ltr/hour

AIR RECEIVERS: - Have they been made under Survey Main engine report State No. of Report or Certificate 1
 Each receiver, which can be isolated, fitted with a safety valve as per Rule 1
 Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces 1
 Is there a drain arrangement fitted at the lowest part of each receiver 1
 High Pressure Air Receivers, No. 1 Cubic capacity of each 1 Internal diameter 1 thickness 1
 Seamless, lap welded or riveted longitudinal joint 1 Material 1 Range of tensile strength 1 Working pressure by Rules 1
 Starting Air Receivers, No. 1 Total cubic capacity 1 Internal diameter 1 thickness 1
 Seamless, lap welded or riveted longitudinal joint 1 Material 1 Range of tensile strength 1 Working pressure by Rules 1

ELECTRIC GENERATORS: - Type C.V. 112
 Pressure of supply 110 volts. Full Load Current 1020 Amperes. Direct or Alternating Current Direct
 Is it an alternating current system, state the periodicity 1 Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on and off Yes
 Are the generators, are they compounded as per rule Yes Is there an adjustable regulating resistance fitted in series with each generator 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
 Do the generators are under 100 kw. full load rating, have the Makers supplied certificates of test 1 and do the results comply with the requirements 1
 Do the generators are 100 kw. or over have they been built and tested under survey 1

SHAFTS. Are approved plans forwarded herewith for Shafting E. 27. 7. 39 Receivers 1 Separate Tanks 1
 (If not, state date of approval)

ARE GEAR As per Rules

The foregoing is a correct description.
 N.V. WERKSPOOR
 Manufacturer.



Dates of Survey while building
 During progress of work in shops - 1939 Nov 22-24 Dec 7-8-11-12 1940 April 29-30 May 1-3 June 25 Nov 1 Jan 9 Feb 5 April 7-10 25 Sept 1944
 During erection on board vessel -
 Total No. of visits

Dates of Examination of principal parts - Cylinders 29-30 April Covers 7-11 Dec Pistons April 29-30 Piston rods

Connecting rods 11-27 Nov Crank and Flywheel shafts 25 June 25 Sept 1 Nov Intermediate shafts

Crank and Flywheel shafts, Material S.M.S Identification Marks 7454-7455
 H.P. 25-9-40

Intermediate shafts, Material Identification Marks

Identification marks on Air Receivers

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 Motors have been built under special survey in accordance with the approved plans, Secretary's letters and the Society's rules. Workmanship throughout good. Motors tested under full load on bench found working good.

The Motors have been shipped to Krumpholtz & Co Ltd and are intended to be fitted aboard Messrs C. and G. Gussner's yard No 667.

These engines have been satisfactorily fitted in the vessel.
 F. Williams

The Surveyors are requested not to write on or below the space for Committee Minute.

The amount of Fee ... £ 360 : When applied for, 9-6-1941
 Travelling Expenses (if any) £ : When received, 19

F. Williams
 Surveyor to Lloyd's Register of Shipping.

FRI. 11 JAN 1946

Committee's Minute
 Assigned *See minutes on file*