

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 1964

11 NOV 1937

Received at London Office

Date of writing Report 23rd Oct 37 When handed in at Local Office 10 Port of Bremen
 No. in Survey held at Augsburg Date, First Survey 8th Sept 37 Last Survey 23rd Oct 1937
 Reg. Book. ROODE ZEE Number of Visits 27

on the Single Screw vessel ROODE ZEE Tons { Gross Net
 Built at Kinderdijk By whom built Nem. N.V. J. + K. Smits Yard No. When built

Owners Port belonging to
 Oil Engines made at Augsburg By whom made Nem. Maschinenfab. Augsburg Contract No. 341910 When made 1937
 Generators made at By whom made Contract No. When made

No. of Engines 2 Engine Brake Horse Power 2x75 Nom. Horse Power as per Rule 28 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines 2 x W3 V 17.5/22 2 or 4 stroke cycle 4 Single or double acting single
 Maximum pressure in cylinders 48 atn Diameter of cylinders 175 mm Length of stroke 220 mm No. of cylinders 3 No. of cranks 3

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 202 mm Is there a bearing between each crank yes
 Revolutions per minute 750 Flywheel dia. 800 mm Weight 520 kgs Means of ignition solid inject Kind of fuel used Diesel oil on test bed

Crank Shaft, dia. of journals as per Rule Crank pin dia. 105 mm Crank Webs Mid. length breadth 150 mm Thickness parallel to axis
as fitted 105 mm Mid. length thickness 40 mm shrunk Thickness around eyehole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 10.5 mm
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, 3.5 m³/h. Is the sea suction provided with an efficient strainer which can be cleared within the vessel
 Lubricating Oil Pumps, No. and size 1, 0.9 m³/h.

Air Compressors, No. No. of stages Diameters Stroke Driven by
 Scavenging Air Pumps, No. Diameter Stroke 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. Total cubic capacity Internal diameter thickness
 Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

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
 armature 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

TANKS. Are approved plans forwarded herewith for Shafting Receivers Separate Tanks
 (If not, state date of approval) crank shaft 25th Aug. 37

ARE GEAR as per Rules

The foregoing is a correct description.
Maschinenfabrik Augsburg-Nürnberg A.-G.

W. Stiefing & W. Dime Manufacturer.



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 W258-0080

Dates of Survey while building { During progress of work in shops - - } Sept. 8, 9, 15, 18, 20, 21, 24, 25, 27, 28, 29, 30, October 1, 2, 5, 6, 11, 12, 14, 15, 16, 18, 19, 20, 21, 22, 23.
 { During erection on board vessel - - - } ✓
 Total No. of visits 27.

Dates of Examination of principal parts—Cylinders 8/9/37 15/10/37 Covers 15/9/37 Pistons 6/10/37 Piston rods ✓

Connecting rods 6-10-37, 22-10-37 Crank and Flywheel shaft 8-9-37, 22-10-37 Intermediate shaft ✓

Crank and Flywheel shafts, Material Siemens-Martin-Steel Identification Mark 660yds 36+37. H.S. 24-7-37

Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case ✓ If so, state name of vessel ✓

General Remarks (State quality of workmanship, opinions as to class, &c. These two auxiliary heavy oil engines have been submitted under special survey in accordance with the Society's Rules and Regulations as well as with the approved plan and instructions thereto. The material used in the construction is good and the workmanship was found to be satisfactory. The auxiliary engines have been tested running under full load and 10% overload on the maker's test bed in the presence of the undersigned and were found to work satisfactorily during these trials. In our opinion the vessel for which these auxiliary engines are intended will be eligible for the notation of ~~of~~ L.M.C. (with date) when the whole machinery has been satisfactorily fitted on board and tried under full working conditions.

Im. 2, 38.—Transfer. (The Surveyors are requested not to write on or below the space for Committee Minutes.)

The amount of Fee ...	RM. 140.00	When applied for,	29.10.1937.
2 x test bed trial	84.00	When received,	19/12.1937
Travelling Expenses (if any) &	26.00		

A. Schneider. W. Petersen.
 Surveyors to Lloyd's Register of Shipping.

FRI 19 AUG 1938

Committee's Minute
 Assigned

(Not for Classing) See F.E. Rpt.
 Committee



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