

2 Main generator



Rpt. 4c.

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 16954

Date of writing Report 4<sup>th</sup> of June 1949 When handed in at Local Office 19 Port of Amsterdam Received at London Office 13 JUN 1949

No. in Survey held at Hoengelo Date, First Survey 18 Nov. 1946 Last Survey 1<sup>st</sup> of June 1949  
Reg. Book. Single on the Triple Quadruple Screw vessel. Number of Visits 20

Built at West Hartlepool By whom built Wm Gray Yard No. 1136 When built 1949  
Owners Mevelt Goudriaan Port belonging to Rotterdam

Oil Engines made at Hoengelo By whom made Gebr. Stork & Co N.V. Contract No. 5690 When made 1949  
Generators made at Hoengelo By whom made Gebr. Stork & Co N.V. Contract No. 5690 When made 1949

No. of Sets 2 Engine Brake Horse Power 240 Nom. Horse Power as per Rule 160 Total Capacity of Generators 160 Kilowatts.

OIL ENGINES, &c.—Type of Engines H.B. 4x 275/450 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 4.5 kg/cm<sup>2</sup> Diameter of cylinders 275 mm Length of stroke 450 mm No. of cylinders 4 No. of cranks 4

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 330 mm Is there a bearing between each crank Yes

Revolutions per minute 375 Flywheel dia. 1670 mm Weight 4500 kg Means of ignition Compression Kind of fuel used Gas oil

Crank Shaft, dia. of journals 100 mm as per Rule 100 mm Crank pin dia 100 mm Crank Webs 320 mm Mid. length breadth 320 mm Thickness parallel to axis shrunk  
as fitted 100 mm Mid. length thickness 320 mm Thickness round eye hole shrunk

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

Cooling Water Pumps, No. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size 1 a 40 ton per hour

Air Compressors, No. 1 No. of stages 1 Diameters 100 mm Stroke 100 mm Driven by Electric

Scavenging Air Pumps, No. 1 Diameter 100 mm Stroke 100 mm Driven by Electric

AIR RECEIVERS:—Have they been made under Survey Yes State No. of Report or Certificate 1-0-47

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 None

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

High Pressure Air Receivers, No. 1 Cubic capacity of each 1.5 m<sup>3</sup> Internal diameter 100 mm thickness 10 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 40-50 kg/cm<sup>2</sup> Working pressure by Rules 10 kg/cm<sup>2</sup>

Starting Air Receivers, No. 1 Total cubic capacity 1.5 m<sup>3</sup> Internal diameter 100 mm thickness 10 mm

Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 40-50 kg/cm<sup>2</sup> Working pressure by Rules 10 kg/cm<sup>2</sup>

ELECTRIC GENERATORS:—Type 35798 54046 Pressure of supply 220 volts. Full Load Current 720 Amperes. Direct or Alternating Current Direct

If alternating current system, state the periodicity 50 Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown on and off Yes

Generators, are they compounded as per Rule Yes is an adjustable regulating resistance fitted in series with each shunt field Yes

Are all terminals accessible, clearly marked, and furnished with sockets Yes Are they so spaced Yes

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

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

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

PLANS.—Are approved plans forwarded herewith for Shafting 1-0-47 Receivers 1-0-47 Separate Tanks 1-0-47

SPARE GEAR

The foregoing is a correct description,

Koninklijke Machinefabriek

Gebr. Stork & Co N.V.

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - 1946 Nov 10; 1947 July 3; Dec 10; 1948 Jan 8 Feb 10 Sept 13 Oct 17  
During erection on board vessel - - Nov 3-10-17-24; Dec 8-12; 1949 Feb 9 March 1-30 April 8-27 May 4 June 1  
Total No. of visits 20

Dates of Examination of principal parts—Cylinders 3-11-48 Covers 10-11-48 Pistons 10-11-48 Piston rods -

Connecting rods 13-9-48 Crank and Flywheel shafts 13-9-48 Intermediate shafts -

Crank shaft { Material V.M. Steel Tensile strength 6295690 6295699  
Elongation 30% - 32% Identification Marks LLOYDS No 1113 No 749  
AYH 7-2-49 AYH 19-8-47

Flywheel shaft, Material Identification Marks

Is this machinery duplicate of a previous case Identification Marks

Identification marks on Air Receivers

Torsional vibration characteristics have been examined and approved (See letter 1-8-47)

Is this machinery duplicate of a previous case Yes If so, state name of vessel Hough Salvastream Steamers Ltd

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) The Engines has been built

under special Survey in accordance with the approved plan, and Society's rules. The material used in the construction is good and workmanship satisfactory

Engines tried under full load condition and found in order, and merits in my opinion the approval of the Committee.

The Engines has been shipped to West Hartlepool.

Det. of both Crankshafts enclosed

The amount of Fee ... £ 400.00 When applied for 9-6 1949

Travelling Expenses (if any) £ 62.00 When received 19

Committee's Minute FRI 1 SEP 1950

Assigned See F.E. mch. rpt.

