

2 Main generator



Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 16954

Date of writing Report 4th 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 1st of June 1949 Number of Visits 20

Reg. Book. Single on the Pin Tripte Quadrante Screw vessel. "ALTAIR"

Built at West Hartlepool By whom built Wm Gray Yard No. 1136 When built

Owners Mevelt Goudriaan Port belonging to Rotterdam

Oil Engines made at Hoengelo By whom made Gebr. Stork & Co N.V. Contract No. 5690/49 When made 1949

Generators made at By whom made Contract No. When made

No. of Sets Engine Brake Horse Power 240 Nom. Horse Power as per Rule 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 45 kg/cm² 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 Diesel Oil

Crank Shaft, dia. of journals as per Rule 100 mm as fitted Crank pin dia 100 mm Crank Webs Mid. length breadth 320 mm Thickness parallel to axis shrunk Mid. length thickness 02 mm Thickness round eyehole e

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

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. Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1 a 40 ton per 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 State No. of Report or Certificate

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 9/11 35798. Dm. No. 5404617.

Pressure of supply 220 volts. Full Load Current 720 Amperes. Direct or Alternating Current

If alternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full 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 1-0-47 Receivers Separate Tanks

SPARE GEAR

T.V.C. app. 2/8/47 for 375 r.p.m.

The foregoing is a correct description,

Koninklijke Machinefabriek
Gebr. Stork & Co N.V. Manufacturer.



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Foundation

002051-002061-0055

Dates of Survey while building
 During progress of work in shops - - 1946 Nov 20; 1947 July 5; Dec 10; 1948 Jan 8 Feb 10 Sept 23 Oct 27
 During erection on board vessel - - - Nov 3-10-17-24; Dec 8-22; 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 23-9-48 Crank and Flywheel shafts 23-9-48 Intermediate shafts -

Crank shaft
 Material U.M. Steel Tensile strength 629 5690 629 5699
 Elongation 30% - 32% Identification Marks LLOYD'S No 1112 No 749
 AYH 7-2-49 AYH 29-8-47

Flywheel shaft, Material Identification Marks
 Is this machinery duplicate of a previous case Identification Marks

Identification marks on Air Receivers

Is this machinery duplicate of a previous case. *Yes* If so, state name of vessel *George Selousstream Hoernsbeck*

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. Cert. of both Crankshafts enclosed*

The amount of Fee ... £ *2/3 x 1000.00 = 7400.00* When applied for *9-6* 19*49*
 Travelling Expenses (if any) £ *700.00* When received 19

Committee's Minute *FRI, 1 SEP 1950*
 Assigned *See F.F. mech. rpt.*



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