

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No.

13368

Received at London Office

22 FEB 1951

Date of writing Report 12-2-1950 When handed in at Local Office 19 Port of Copenhagen

No. in Survey held at Kalundborg & Odense Date, First Survey 21-7-50 Last Survey 12-1-1951

Reg. Book. on the Single Triple Quadruple Screw vessel Motor Tanker "Charlotte Maersk" Number of Visits 9 Tons Gross 7901 Net

Built at Aledense By whom built a/s Aledense Staalskibsvaerft Yard No. 112 When built 1951

Owners a/s D/S Svendborg & a/s 1912 a/s Port belonging to Fredericia

Oil Engines made at Kalundborg By whom made a/s Motorfabriken Bueh Contract No. 6446 When made 1951

Generators made at Aledense By whom made Thomas B. Thinge Contract No. 300370 300371 When made 1951

No. of Sets 2 Engine Brake Horse Power 75 M.N. as per Rule 37.5 Total Capacity of Generators 88 Kilowatts.

Is Set intended for essential services. Yes

OIL ENGINES, &c.—Type of Engines Heavy Oil Solid Injection 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 55 Kg/cm² Diameter of cylinders 160 mm Length of stroke 230 mm No. of cylinders 4 No. of cranks 4Mean indicated pressure 7.3 Kg/cm² Firing order in cylinders 1-2-4-3 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 165 mmIs there a bearing between each crank Yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) 174 x 10⁴ Revolutions per minute 625

Flywheel dia 850 mm Weight 400 Kg. Means of ignition Comp. Kind of fuel used Diesel

Crank Shaft, dia. of journals as per Rule a/s as fitted 115 mm Crank pin dia. 105 mm Crank Webs Mid. length breadth 165 mm Mid. length thickness 45 mm Thickness parallel to axis Thickness round eyehole

Flywheel Shaft, diameter as per Rule as fitted Intermediate Shafts, diameter as per Rule as fitted General armature, moment of inertia (16 m² or Kg.-cm.²)

Are means provided to prevent racing of the engine when declutched Yes Means of lubrication Forced Kind of damper if fitted

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. 1-1, 83 tons/hr Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size 1-4, 6 tons/hr

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 Drop proof enclosed ventilated

Pressure of supply 110 volts Full Load Current 400 Amperes Direct or Alternating Current Direct

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 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

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

Details of driven machinery other than generator

PLANS.—Are approved plans forwarded herewith for Shafting 20-2-50 Receivers Separate Tanks

Have Torsional Vibration characteristics if applicable been approved Armature shaft Drawing No.

SPARE GEAR As per rule requirements

The foregoing is a correct description,

MOTORFABRIKEN BUEH

Manufacturer.

ARTIESELSKAB



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Foundation

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Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - -
Total No. of visits

21/7/50 - 29/9/50

Dates of Examination of principal parts—Cylinders 19/9/50 Covers 19/9/50 Pistons 19/9/50 Piston rods ✓

Connecting rods 19/9/50 Crank and Flywheel shafts 21/7/50, 29/9/50 Intermediate shafts ✓

Crank shaft Material S. M. Steel Tensile strength 40.0/40.7 kg/mm²
Elongation 24.3% on 3" Identification Marks LLOYD'S N° 79981 J G 21-7-50

Flywheel shaft, 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.) These diesel oil generator sets have been constructed and installed on board under special survey in accordance with the Rules, approved plans and the Secretary's Letter E dated 20-2-50

The materials used have been examined and tested as required by the Rules and the workmanship is good
The generator sets have been tested under full working conditions and found satisfactory

The amount of Fee ... £ 400 : When applied for 14-12-1950
Travelling Expenses (if any) £ 20 : When received 19

For H. Lund & self. W. Russell
Surveyors to Lloyd's Register of Shipping.

TUES. 13 MAR 1951

Committee's Minute

Assigned Su R. E. maly. spk.



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