

DEIVED

Rpt: 194e.

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 118270

D.O.

Date of writing Report 11-5-1949 When handed in at Local Office 30 May 1949 Port of Ipswich Received at London Office

No. in Survey held at Colchester Date, First Survey 11-6-49 Last Survey 10-5-1949 Reg. Book.

Single on the Twin Triple Quadruple Screw vessel Tons Gross Net Number of Visits 720

Built at By whom built Yard No. When built

Owners Port belonging to

Oil Engines made at Colchester By whom made Denny Parsons & Co. Ltd. Contract No. 258533 When made 1949

Generators made at S. du Land By whom made S. du Land Forge & Eng. Co. Ltd. Contract No. 40161 When made 1949

No. of Sets 6 Engine Brake Horse Power 11 M.N. as per Rule Total Capacity of Generators 6 Kilowatts

Is Set intended for essential services

OIL ENGINES, &c.—Type of Engines Heavy Oil (2 x 4 1/2) 2 or 4 stroke cycle 4 Single or double acting 8

Maximum pressure in cylinders 85.0 lb./sq. in. Diameter of cylinders 4 in. Length of stroke 4 in. No. of cylinders 2 No. of cranks 2

Mean indicated pressure 98.5 lb./sq. in. Firing order in cylinders 1-2 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 4 7/8 in.

Is there a bearing between each crank Yes Moment of inertia of flywheel (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) 706 lb.-ft.<sup>2</sup> Revolutions per minute 1100

Flywheel dia. 2 x 19 1/2 in. Weight 426 lb. Means of ignition Compression Kind of fuel used Diesel

Crank Shaft, dia. of journals as per Rule 2 1/8 in. Crank pin dia. 2 1/2 in. Crank Webs Mid. length breadth 5 3/8 in. Thickness parallel to axis

as fitted 2 1/8 in. Mid. length thickness 1 1/4 in. shrunk Thickness round eyehole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule General armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)

as fitted 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 No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Cooling Water Pumps, No. 6 Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 6 Standard

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 Dip Proof

Pressure of supply 110 volts Full Load Current 54 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 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

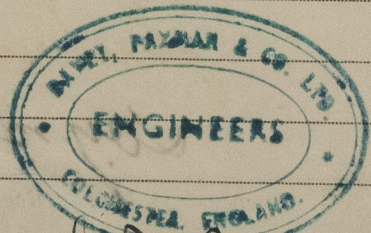
Details of driven machinery other than generator

PLANS.—Are approved plans forwarded herewith for Shafting Standard approved Receivers Separate Tanks

(If not, state date of approval) Have Torsional Vibration characteristics if applicable been approved Armature shaft Drawing No.

(state date of approval)

SPARE GEAR



The foregoing is a correct description,

CONTRACTS MANAGER



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011304-011315-0042



Dates of Survey while building  
During progress of work in shops - 1948 JUNE 11. (1949) MAY 10.  
During erection on board vessel -  
Total No. of visits Two (2) shops

Dates of Examination of principal parts—Cylinders 11-6-48 Covers 11-6-48 Pistons 11-6-48 Piston rods

Connecting rods 11-6-48 Crank and Flywheel shafts 11-6-48 Intermediate shafts

Crank shaft Material Steel Tensile strength 40 tons  
Elongation Identification Marks 7.2 806.

Flywheel shaft, Material Identification Marks

Identification marks on Air Receivers

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.)

The Engine has been constructed under Special Survey in accordance with the approved plans, Rule requirements & Secretary's letter.

The materials & workmanship are sound & of good description. The Engine has been tested in the Shop under full load conditions & found satisfactory and have been dispatched to Mr. Smuland Forge & Eng. Co. Ltd. Smuland.

The amount of Fee ... £ 4 : 0 : 0 When applied for 31 MAY 1949  
Travelling Expenses (if any) £ : 10 : 0 When received 19

Committee's Minute Fri 7 Oct 1949.  
Assigned No Action // See F.E. mch. rpt.