

RECEIVED

MAR 1947

Yokohama No. 15322

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 114852

Received at London Office

12 MAR 1947

Date of writing Report 12 MAR 1947

When handed in at Local Office 12 MAR 1947

Port of LONDON

No. in Survey held at 69110

Stamford

Date, First Survey 22. 10. 46

Last Survey 10. 12. 1946

Number of Visits THREE

By whom built Asel Johnson

Tons Gross Net

By whom built A. B. Gotaviksen

Yard No. 39 When built 1925

Engines made at Stamford Lines By whom made Blackstone & Co Ltd

ENGINE No. 46749 Contract No. 12053 When made 1946

Generators made at Dunsley, Glos By whom made Trawdsley Ltd

Contract No. When made 1946

No. of Sets 1 Engine Brake Horse Power 180 Nom. Horse Power as per Rule 45

Total Capacity of Generators 110 Kilowatts

OIL ENGINES, &c.—Type of Engines Vertical totally enclosed EPYMA 5 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 720 lbs Diameter of cylinders 8 3/4 Length of stroke 11 1/2 No. of cylinders 5 No. of cranks 5

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 10 Is there a bearing between each crank Yes

Revolutions per minute 600 Flywheel dia. 40 Weight 18 Cwt Means of ignition Compression Kind of fuel used Pool diesel

Crank Shaft, dia. of journals as per Rule As approved as fitted 5 3/4 Crank pin dia. 5 3/4 Crank Webs Mid. length breadth 8 Thickness parallel to axis Mid. length thickness 2 7/16 shrunk Thickness round eye-hole

Flywheel Shaft, diameter as per Rule As approved as fitted 5 3/4 Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 19/32

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced dry sump

Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged

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

Lubricating Oil Pumps, No. and size 2 one pressure one scavenge

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

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 Tramine type, drip proof compound wound

Pressure of supply 230 volts Full Load Current 480 Amperes Direct or Alternating Current Direct

Is an alternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

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

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

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

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

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

SPARE GEAR ? Rule Spare Gear

1 Spare armature 1 Spare field coil 1 Set of bearings

1 Set of brushes 1 Set of brush holders

Plans in basement

The foregoing is a correct description,

J. B. Gundy

FOR BLACKSTONE & Co. LTD,

Manufacturer.



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Lloyd's Register Foundation

003162 0974 052

Dates of Survey while building
 During progress of work in shops - - 22. 10. 46.
 During erection on board vessel - - -
 Total No. of visits. THREE (In Shops)

12. 11. 46.

10. 12. 46

pt. 4c.

Dates of Examination of principal parts—Cylinders 22. 10. 46. Covers 22. 10. 46. Pistons 22. 10. 46. Piston rods.

Connecting rods 22. 10. 46. Crank and Flywheel shafts. Intermediate shafts.

Crank shaft { Material B.S.S 5005/204 Tensile strength 40/45 Ton sq in
 Elongation 20% Identification Marks L.R. 34 266. 20. 10. 46.

Flywheel shaft, Material As above. Identification Marks.

Is this machinery duplicate of a previous case. Yes Identification Marks.

Identification marks on Air Receivers.

Is this machinery duplicate of a previous case. Yes If so, state name of vessel Axel Johnson. London Rpt.

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This engine is of Messrs Blackstone Co's standard design & has been built & tested under survey. The steel has been made at works approved by the Committee. The workmanship is good, and on completion the set was dispatched to Stockholm for fitting on board the vessel. When satisfactorily installed & tested will be eligible for the record of L.M.C. (with date). The torsional vibration characteristics of this engine have been approved — Letter of 10. 11. 47. for a service speed of 6000.

Im. 11. 42. T. (MADE AND PRINTED IN ENGLAND).
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 6 : 15 : 0 } When applied for 12 MAR 1946
 Travelling Expenses (if any) £ 1 : 0 : 0 } When received 19.

FRI. 13 JUN 1946.

Committee's Minute

Assigned See Lot 15322

a. c. Wedgery.
 Surveyor to Lloyd's Register of Shipping.
 Lloyd's Register Foundation