

pt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11145614

Date of writing Report 12-12-1946 When handed in at Local Office 24 Dec 1946 Port of Ipswich

No. in Survey held at Colchester Date, First Survey end Last Survey 10-12-1946

Single on the Twin Triple Quadruple Screw vessel ACCRA Tons Gross Net

Built at Barrow in Furness By whom built Vickers-Armstrong Ltd Yard No. 948. When built 1946

Owners Elder Dempster Ltd. Port belonging to

Oil Engines made at Colchester By whom made Dewey, Paxman & Co. Ltd. Contract No. 6844 When made 1946

Generators made at Bedford. By whom made W. Allen Sons & Co. Ltd. Contract No. E2/59310/1 When made 1946

No. of Sets 6 Engine Brake Horse Power 100 Nom. Horse Power as per Rule 28.5 Total Capacity of Generator 50 Kilowatts

TYPE OF ENGINES, &c. Type of Engines Heavy Oil (5 RW Type) 2 or 4 stroke cycle 4 Single or double acting Simple

Maximum pressure in cylinders 800 lbs. Diameter of cylinders 5 1/2" Length of stroke 7" No. of cylinders 5 No. of cranks 5

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 1/4" Is there a bearing between each crank Yes

Revolutions per minute 1000 Flywheel dia. 27" Weight 495 lb. Means of ignition Compression Kind of fuel used Diesel

Crank Shaft, dia. of journals as per Rule 4" as fitted 4" Crank pin dia. 3 5/8" Crank Webs Mid. length breadth 5" Thickness parallel to axis 1 3/4" Mid. length thickness 1 3/4" Thickness around eye-hole

Flywheel Shaft, diameter as per Rule 4" as fitted 4" Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 1/8"

Is there a governor or other arrangement fitted to prevent racing of the engine when disengaged Yes Means of lubrication Forced

Are the cylinders fitted with safety valves No Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged

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

Lubricating Oil Pumps, No. and size 6 Standard

Air Compressors, No. No. of stages Diameters Stroke Driven by

Exhausting 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

Are the internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces

Where a drain arrangement fitted at the lowest part of each receiver

High Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

Unless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

Low Pressure Air Receivers, No. Total cubic capacity Internal diameter thickness

Unless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS: Type Enclosed, Imtulated, Drip Proof.

Pressure of supply 220 volts. Full Load Current 227. Amperes. Direct or Alternating Current Direct

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

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

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

APPROVED. Are approved plans forwarded herewith for Shafting Co. Ltd. inspection. Receivers Separate Tanks 12-12-46

RE GEAR



CONTRACTS MANAGER A.S. Brown



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Handwritten notes: 2.14, 9/11/47

Dates of Survey while building
 { During progress of work in shops - - } 1946: Dec 10
 { During erection on board vessel - - - }
 Total No. of visits

Dates of Examination of principal parts—Cylinders _____ Covers _____ Pistons _____ Piston rods _____
 Connecting rods _____ Crank and Flywheel shafts _____ Intermediate shafts _____
 Crank and Flywheel shafts, Material Steel Identification Marks 440705. N° 4088.
 Intermediate shafts, 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 of good description. The engine has been examined under full load conditions for a period of six hours. The Set has been despatched to Barrow in Furness to be fitted on board the vessel. Copy of Maker's Smelter's Test Certificate attached to Report on Engine N° 6845.

The amount of Fee ... £ 4 : 7 : 0 } When applied for, 24 DEC 1946
 Travelling Expenses (if any) £ 10 : 6 } When received, 19

Wynne
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute FM. 31 OCT 1947
 Assigned Su F. E. Welch, rpt.



Im 4,32.—Transfer. (MADE AND PRINTED IN ENGLAND)
 (The Surveyors are requested not to write on or below the space for Committee Minute.)