

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 11877.

Received at London Office 13 DEC 1944

of writing Report 28/6/44 to When handed in at Local Office 1/7/44 in Port of MANCHESTER.

in Survey held at ALTRINCHAM. Date, First Survey 2/5/44 Last Survey 28/6/44 19

on the Single Screw vessel 5/5 "Enforcer". Tons Gross Net

at HULL. By whom built C.D. Holmes & Co. Yard No. J.2533/5/7. When built

Engines made at ALTRINCHAM. By whom made Russell Newbery & Co. Engine 3851 No.s. 3852 When made 1944.

erators made at By whom made Contract No. 3853. When made

of Sets 4 Engine Brake Horse Power 14 Nom. Horse Power as per Rule 4 Total Capacity of Generators - Kilowatts.

ENGINE'S, &c. Type of Engines Vertical Solid Injection 2 or 4 stroke cycle 4 Single or double acting Single.

imum pressure in cylinders 860 lbs/sq" Diameter of cylinders 4 1/2" Length of stroke 6" No. of cylinders 2 No. of cranks 2

of bearings, adjacent to the Crank, measured from inner edge to inner edge 5 1/8" Is there a bearing between each crank Yes.

utions per minute 800. Flywheel dia. 22" Weight 220 lbs. Means of ignition Compression Kind of fuel used Diesel Oil.

er be shut of as per Rule Approved. Crank pin dia. 2 3/8" Crank Webs Mid. length breadth 3 1/2" Thickness parallel to axis -

nk Shaft, dia. of journals as fitted 2 1/2" Mid. length thickness 1.5/16" Thickness around eye-hole -

heel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 11/32"

governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced.

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

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

ricating Oil Pumps, No. and size One - Gear Type.

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

Manufacturing Air Pumps, No. Diameter Stroke Driven by

RECEIVERS: Have they been made under Survey State No. of Report or Certificate

uch receiver, which can be isolated, fitted with a safety valve as per Rule

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

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

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

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

rting Air Receivers, No. Total cubic capacity Internal diameter thickness

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

ELECTRIC GENERATORS: Type

ssure of supply volts. Full Load Current Amperes. Direct or Alternating Current

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

erators, are they compounded as per rule is an adjustable regulating resistance fitted in series with each

at field Are all terminals accessible, clearly marked, and furnished with sockets

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

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

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

NS. Are approved plans forwarded herewith for Shafting 2.10.42. Receivers Separate Tanks

RE GEAR STANDARD SPARES ONLY.

N. 3851 put on board 'ENTICER'

" 3852 sent to Naval Base Plymouth

" 3853 fitted on board 'ENIGMA'

" 3854 sent to Naval Base, Portsmouth

W. Shields, Agent.

The foregoing is a correct description,

per pro, RUSSELL, NEWBERY & Co. Ltd.

G. Waterworth. SECRETARY.

Dates of Survey while building { During progress of work in shops - - 1944 May 2nd, 3rd, 26th. June 12th, 14th, 22nd & 28th. During erection on board vessel - - - } Total No. of visits

Dates of Examination of principal parts—Cylinders 2 & 3/5/44 Covers 2&3/5/44222/6/44 Pistons 2 & 3/5/44 Piston rods -
Connecting rods 2 & 3/5/44. Crank and Flywheel shafts 2 & 3/5/44. Intermediate shafts
Crank and Flywheel shafts, Material O. H. STEEL Identification Marks SEE BELOW.
Intermediate shafts, Material - Identification Marks
Identification marks on Air Receivers -

Is this machinery duplicate of a previous case YES If so, state name of vessel See Manchester Report No. 11,753.

General Remarks (State quality of workmanship, opinions as to class, &c. THESE ENGINES HAVE BEEN CONSTRUCTED UNDER SPECIAL SURVEY OF TESTED MATERIALS AND ARE IN ACCORDANCE WITH THE SECRETARY'S LETTERS, APPROVED PLANS AND RULE REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE GOOD AND THE ENGINES, WHEN TESTED IN SHOP UNDER FULL LOAD CONDITIONS SHEWED SATISFACTORY RESULTS. IN MY OPINION, THESE ENGINES ARE SUITABLE TO BE PLACED ON BOARD A VESSEL CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED.

	ENGINE 3851	ENGINE 3852	ENGINE 3853	ENGINE 3854
CRANKSHAFT	LLOYD'S 2156	LLOYD'S 2082	LLOYD'S 2046	LLOYD'S 2156
	F.H. 1.11.43	F.H. 31.1.44	F.H. 31.1.44	F.H. 1.11.44

The amount of Fee ... £ 16 : 16 : 30/6/44
Travelling Expenses (if any) £ 1 : 10 :
When applied for, 30/6/44
When received, 19

Signature
Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI. 12 JAN 1945

Assigned See F.E. machy. opt.



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Foundation