

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 115467

Received at London Office 3 SEP 1947
 3 SEP 1947 When handed in at Local Office 3 SEP 1947 Port of LONDON
 at Stamford Date, First Survey 30th April Last Survey 22nd July 1947
 Number of Visits 2
 M.V. ANNIE JOHNSON
 Screw vessel By whom built A/B Gotaverken Yard No. When built 1925/11
 By whom made Blackstone Eng. Co. Ltd ENGINE 46750 Contract No. 46751 When made 1947
 By whom made Mawdsleys Ltd. GENERATOR 260R.1/3 Contract No. 260R.1/4 When made 1946
 Engine Brake Horse Power 2x180 M.N. as per Rule 2 x 45 Total Capacity of Generators 2 x 110 Kilowatts.
 Special services

Type of Engines Vertical enclosed 5 Cylinder 2 or 4 stroke cycle 4 Single or double acting Single
 Cylinders 720 lbs/sq in Diameter of cylinders 8 3/4" Length of stroke 11 1/2" No. of cylinders 5 No. of cranks 5
 Firing order in cylinders Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 10 3/32"
 on each crank Yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) Revolutions per minute 600
 Weight 18 cwt. Means of ignition Comp. Kind of fuel used Pool Diesel
 as per Rule 5 3/4" Crank pin dia. 5 3/4" Mid. length breadth 8" Thickness parallel to axis
 as fitted 5 3/4" Crank Webs Mid. length thickness 2 7/16" shrunk Thickness round eye-hole
 as per Rule 5 3/4" Intermediate Shafts, diameter as per Rule General armature, moment of inertia (16 m² or Kg.-cm.²)
 as fitted 5 3/4" prevent racing of the engine when declutched Yes Means of lubrication Forced Kind of damper if fitted None
 with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged
 No. One Is the sea suction provided with an efficient strainer which can be cleared within the vessel
 No. and size 2 Gear wheel pumps, chain driven.
 No. of stages Diameters Stroke Driven by
 No. Diameter Stroke Driven by
 Have they been made under Survey State No. of Report or Certificate
 can be isolated, fitted with a safety valve as per Rule
 es of the receivers be examined What means are provided for cleaning their inner surfaces
 ment fitted at the lowest part of each receiver
 eivers, No. Cubic capacity of each Internal diameter thickness
 riveted longitudinal joint Material Range of tensile strength Working pressure by Rules
 No. Total cubic capacity Internal diameter thickness
 riveted longitudinal joint Material Range of tensile strength Working pressure by Rules
 RATORS:—Type Marine Type, Drip Proof, compound wound
 volts. Full Load Current 480 Amperes Direct or Alternating Current Direct
 system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown
 nerators, are they compounded as per Rule Yes is an adjustable regulating resistance fitted in series with each shunt field Yes
 ible, clearly marked, and furnished with sockets Yes Are they so spaced
 not be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes
 der 100 kw. full load rating, have the makers supplied certificates of test and do the results comply with the requirements
 0 kw. or over have they been built and tested under survey
 nery other than generator Cooling water pump, belt driven.
 d plans forwarded herewith for Shafting No. E 10. 1. 47 Receivers Separate Tanks
 (If not, state date of approval)
 n characteristics if applicable been approved Yes E. 10. 1. 47 Armature shaft Drawing No.
 (state date of approval)
 As per Rule for Heavy oil auxiliary engines

The foregoing is a correct description,

FOR BLACKSTONE

Manufacturer.

MANAGER



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Lloyd's Register Foundation

005605-005610-0285

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4c.

Dates of Survey while building { During progress of work in shops - - 30.4.47 22.7.47
During erection on board vessel - - -
Total No. of visits 2

Dates of Examination of principal parts—Cylinders 30.4.47 22.7.47 Covers 30.4.47 22.7.47 Pistons 30.4.47 22.7.47 Piston rods ✓

Connecting rods 30.4.47 22.7.47 Crank and Flywheel shafts 30.4.47 22.7.47 Intermediate shafts ✓
46750 46751

Crank shaft { Material Siemens steel Tensile strength 45.2 44.2
Elongation Identification Marks No 341 No 342
B.H. 12.2.47 B.H. 9.6.47

Flywheel shaft, Material ✓ Identification Marks ✓

Identification marks on Air Receivers ✓

Is this machinery duplicate of a previous case yes If so, state name of vessel "Axel Johnson" Lon. Rpt. N° 174

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

The above auxiliary oil engines are of Messrs. Blackstone's standard design and have been built and tested under the Society's Survey in accordance with the Rules.

The engines have been examined under full load conditions coupled to their respective generators. The operation of the governors from load to no-load and from no-load to full load has been with satisfactory results.

After running at full load for 4 hours the engines were opened and the cylinders, pistons, covers, valves, valve gears, connecting rods and crankshafts were examined and found in good order.

The materials and workmanship throughout are good. In our opinion the above engines are eligible for inclusion in the LMC when satisfactorily installed in the vessel.

Forging reports of crankshafts attached.

Torsional Vibration Characteristics of this engine approved for service of 600 R.P.M. — Secretary's letter 10.1.47.

The amount of Fee ... £ 18 : - : - When applied for 3 SEP 1947

Travelling Expenses (if any) £ 2 : - : - When received 19

Committee's Minute

Assigned

WED 10 MAR 1948

See Lot 15849

Jas. W. Bell & Son
Surveyors to Lloyd's Register of Shipping.
Lloyd's Register Foundation