

RECEIVED

NOV 1950

Rpt. 4c.

D.O.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 18000

Date of writing Report 20th Oct. 1950 When handed in at Local Office 20th Oct 1950 Port of BRISTOL. Received at London Office 6 NOV 1950

No. in Survey held at Dursley, Glos. Date, First Survey 3rd October Last Survey 19th October 1950

Reg. Book. 02.01.8 " 02.01.8 " 02.01.8 " Number of Visits 2

on the Single Triple Quadruple Screw vessel M.V. WESTWARD Ho. 02.01.8 Tons Gross Net

Built at 2001 S. 22 By whom built Yard No. 10000 When built

Owners 201.2 210010 Port belonging to 20.10

Oil Engines made at Dursley By whom made R.A. Lister (Marine Sales) Ltd. Engine No. CS.81454 When made 1950

Generators made at By whom made Contract No. When made

No. of Sets Engine Brake Horse Power 18 M.N. as per Rule Total Capacity of Generators Kilowatts

Is Set intended for essential services

OIL ENGINES, &c.—Type of Engines Heavy oil, airless injection, 2JPM 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 800lbs Diameter of cylinders 4 1/2" Length of stroke 5 1/2" No. of cylinders 2 No. of cranks 2

Mean indicated pressure Firing order in cylinders Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 14.5/16"

Is there a bearing between each crank No Moment of inertia of flywheel (16 m² or Kg.-cm.²) Revolutions per minute 1000

Flywheel dia 26" Weight 310lbs Means of ignition compression Kind of fuel used heavy oil

Crank Shaft, dia of journals as per Rule 3" Crank pin dia 3" Crank Webs Mid. length breadth 4 1/2" Thickness parallel to axis 3 1/2" Mid. length thickness 3 1/2" Thickness round eye hole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule General armature, moment of inertia (16 m² or Kg.-cm.²)

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 Are the exhaust pipes and silencers water cooled Yes

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

Lubricating Oil Pumps, No. and size

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

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

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 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 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,

Manufacturer.

R. A. LISTER (MARINE SALES) LTD

0008 During progress of work in shops - - 3.10.50 19.10.50
Dates of Survey while building During erection on board vessel - -
Total No. of visits 2
Dates of Examination of principal parts—Cylinders 3.10.50 Covers 3.10.50 Pistons 3.10.50 Piston rods
Connecting rods 3.10.50 Crank and Flywheel shafts 8.8.49 Intermediate shafts
Crank shaft Material Steel Tensile strength 36.2 tons
Elongation 31.5% Identification Marks Lloyd's S.194
Flywheel shaft, Material R.A. Lister (Marine Sales) Ltd. Identification Marks Dursley
Identification marks on Air Receivers 18

Is this machinery duplicate of a previous case Yes If so, state name of vessel
GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This Auxiliary Oil Engine has been built under Special Survey. Water jackets tested with hydraulic pressure 100 lbs. per sq. inch and found sound and tight. The workmanship and materials have been found good. Crankshaft taken from Makers' tested stock. After assembly the engine examined during a full load test bed running trial of several hours duration; governor tried and found satisfactory.

Identification Mark M. 3342. Engine made to the order of Messrs. Boscher.

The amount of Fee ... £ 4 : 0 : 0 When applied for 19
Travelling Expenses (if any) £ 1 : 0 : 0 When received 19

Committee's Minute
Assigned
TUES. 23 JAN 1951
See F.E. Mch. spl

Surveyor to Lloyd's Register of Shipping



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