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apt. 4c.

AIR COMPRESSOR AND PUMP

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 12877.

Date of writing Report 6th April, 47. When handed in at Local Office 1st May, 1947. Port of MANCHESTER. Received at London Office MAY 1947

No. in Survey held at MANCHESTER Date, First Survey 16.11.45. Last Survey 20th February, 47.

eg. Book. Single on the Triple Screw vessel BOSTON MOSQUITO Number of Visits 8. Tons Gross 147 Net

uilt at Lowestoft. By whom built Richards Ironworks Ltd. Yard No. 372/3 When built 1947

iners. Boston Deep Sea Fishing & Ice Co. Ltd. Port belonging to Engine No. 136643. When made 1947.

il Engines made at Reddish. By whom made Crossley Bros. Ltd. Generator No. 35722. When made 1947.

enerators made at Liverpool. By whom made Campbell & Isherwood. Pump No. 70152. When made 1947.

o. of Sets One. Engine Brake Horse Power 28. Nom. Horse Power as per Rule 7. Compressor 70152. Total Capacity of Generators 15. Kilowatts.

IL ENGINES, &c.—Type of Engine Vertical Solid Injection, Heavy Oil. 2 or 4 stroke cycle 4. Single or double acting Single.

maximum pressure in cylinders 850. Diameter of cylinders 5. Length of stroke 6 1/4. No. of cylinders 2. No. of cranks 2.

an of bearings, adjacent to the Crank, measured from inner edge to inner edge 12 5/8. Is there a bearing between each crank No.

olutions per minute 1,000. Flywheel dia. 24. Weight 460. Means of ignition Compression Kind of fuel used Diesel Oil.

ank Shaft, dia. of journals as per Rule Approved. 3 1/2. Crank pin dia. 3 1/4. Crank Webs Mid. length breadth 4 1/2. Thickness parallel to axis.

as fitted 2" Centre Hole. Mid. length thickness 1 7/8. Thickness round eye hole.

wheel Shaft, diameter as per Rule. Intermediate Shafts, diameter as fitted. Thickness of cylinder liners 5/16.

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

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

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

bricating Oil Pumps, No. and size One plunger type.

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

evenging Air Pumps, No. Diameter. Stroke. Driven by.

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

ach 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.

here a drain arrangement fitted at the lowest part of each receiver.

h 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 Compound wound continuous rating enclosed ventilated, drip proof.

ssure of supply 220. volts. Full Load Current 68.2 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

nd off Yes. Generators, are they compounded as per Rule Yes. is an adjustable regulating resistance fitted in series with each shunt field Yes.

all terminals accessible, clearly marked, and furnished with sockets. Yes. Are they so spaced

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

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

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

INS.—Are approved plans forwarded herewith for Shafting 29th July, 1946. Receivers. Separate Tanks.

RE GEAR As Per Rule Requirements.

The foregoing is a correct description,
CROSSLEY BROTHERS LIMITED,

Manufacturer.
Contracts Department.



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Lloyd's Register
Foundation

005194-005209-0117

May 31.

7

Dates of Survey while building { During progress of work in shops - - 1945. November 16. 1946. Jan. 15. / June 7. July 1, 2. 1947. February 20, 21.
During erection on board vessel - - -
Total No. of visits 7.6.46.

Dates of Examination of principal parts - Cylinders 31.5.46. RJY. Covers 31.5.46. RJY. Pistons 21.2.46. Piston rods -

Connecting rods 15.1.46. JW. Crank and Flywheel shafts - Intermediate shafts -

Crank shaft { Material O.H. Steel. Tensile strength 39 Tons per sq. inch.
Elongation 28% on 2" Identification Marks LLOYD'S 2,500 ELK. JW. 16.11

Flywheel shaft, Material 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 If so, state name of vessel

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) This engine is constructed under special survey of tested materials and is in accordance with Secretary's letters, approved plans and Rule Requirements.

Materials and workmanship are of good quality and the engine when tested in the shops under load conditions gave satisfactory results.

In our opinion, this engine is suitable for installation in a vessel to be classed with this Society for the purpose intended.

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 ... £ 4 : 0 : 0 When applied for 1-5-47 19
Travelling Expenses (if any) £ 1 : 12 : 6. When received 19

Committee's Minute
Assigned See F.E. Welch. rpt.

R. H. Gorton D. H. Taylor
Surveyor to Lloyd's Register of Shipping.
Lloyd's Register Foundation