

20.7.44.

pt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 11865.

Date of Report 12th June 44 when handed in at Local Office 14th June, 44 Port of MANCHESTER. Received at London Office 15 JUN 1944

No. in Survey held at ASHTON-U-LYNE. Date, First Survey 30.7.43. Last Survey 9. 6. 1944. Number of Visits Four.

on the ^{Single} ~~Triple~~ Screw vessel "EMPIRE DYNASTY" Tons { Gross Net

Built at ~~SUNDERLAND~~ GREENOCK. By whom built J.L. THOMPSON & CO LD John G. Kincaid Ltd. Yard No. 631. When built 1944.

Oil Engines made at ASHTON-U-LYNE. By whom made National Gas & O.E.Co. Engine No. 57094. When made 1944. Air Compressor made at IPSWICH. By whom made Reavell & Co. Ltd. Compressor No. 83366. When made 1943.

No. of Sets One Engine Brake Horse Power 5 Nom. Horse Power as per Rule 1.4 Total Capacity of Generators - Kilowatts.

IL ENGINES, &c.—Type of Engines B.S.S. 2 or 4 stroke cycle 4 Single or double acting Single.

Maximum pressure in cylinders 725 lbs/sq" Diameter of cylinders 3 3/4" Length of stroke 5 1/2" No. of cylinders 1 No. of cranks 1

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 4 7/8" Is there a bearing between each crank -

Revolutions per minute 800 Flywheel dia. 22 1/2" Weight 235 lbs. Means of ignition Compression Kind of fuel used Diesel Oil.

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

as fitted 2" Crank pin dia. 2 1/8" Crank Webs Mid. length thickness 1 1/8" Thickness around eye-hole Solid.

Flywheel Shaft, diameter as per Rule - Intermediate Shafts, diameter as per Rule - Thickness of cylinder liners 3/8"

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

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

Cooling Water Pumps, No. 1 Centrifugal Type. 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. One. No. of stages Two Diameters Reavell No. 83366. Stroke Driven by Direct.

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

Went 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

PLANS. Are approved plans forwarded herewith for Shafting 6.7.43. Receivers - Separate Tanks -

SHAFTING AS PER RULE REQUIREMENTS.

The foregoing is a correct description,

[Signature] THE NATIONAL GAS AND OIL ENGINE Co. Ltd. Manufacturer.



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011628-011635-0275

Dates of Survey while building
 During progress of work in shops - - 30.7.43. 6.8.43. 22.9.43. 9.6.44.
 During erection on board vessel - - -
 Total No. of visits

Dates of Examination of principal parts—Cylinders 22.9.43. Covers 22.9.43. Pistons 22.9.43. Piston rods -
 Connecting rods 22.9.43. Crank and Flywheel shafts 30.7.43. Intermediate shafts -
 Crank and Flywheel shafts, Material O.H. Steel. Identification Marks LLOYD'S M.128. 30.7.43. A.G.S.
 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 Richardson's Westgarth & Co. Ltd. 2734/

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

This Small Oil Engine/Air Compressor Set for first charging of Starting Air Receivers for the three 180KW Oil Eng/Elec Generator Sets has been efficiently fitted on board the S/S EMPIRE DYNASTY, J.L. Thompson's Yard No 631 and is situated on Starboard side in main Engine Room. The set was found satisfactory under working conditions.
 A. Watt
 Newcastle on Tyne
 5th Dec 1944.

The amount of Fee ... £ 4 : 4 : 0 When applied for, 14.6.19.44.
 Travelling Expenses (if any) £ 0 : 10 : 0 When received, 19.....

A. G. Smith
 Surveyor to Lloyd's Register of Shipping.

FRI. 5 JAN 1945

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

Im. 430.—Transcript. (MADE AND PRINTED IN ENGLAND)
 (The Surveyors are requested not to write on or below the space for Committee Minutes.)



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