

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 109424

Received at London Office 28 FEB 1941

Date of writing Report 28 FEB 1941 When handed in at Local Office 28 FEB 1941 Port of London

No. in Survey held at Newbury Date, First Survey 1 MAR 1940 Last Survey 1 MARCH 1940 Reg. Book. Number of Visits ONE

Single on the Twin Triple Quadruple Screw vessel m.v. 'NORTHGATE' Tons Gross Net

Built at Newcastle By whom built Melands (Successors) Ltd. Yard No. 54. When built

Owners Port belonging to

Oil Engines made at Newbury By whom made Newbury Diesel Co. Ltd. Serial Contract No. 4431/B. When made

Generators made at By whom made Contract No. When made

No. of Sets Engine Brake Horse Power 10 Nom. Horse Power as per Rule 167 Total Capacity of Generators Kilowatts.

OIL ENGINES, &c.—Type of Engines High speed solid injection hand starting 2 or 4 stroke cycle 4 Single or double acting SA

Maximum pressure in cylinders 700 lb. Diameter of cylinders 105 Length of stroke 152 No. of cylinders 1 No. of cranks 1

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 134 Is there a bearing between each crank

Revolutions per minute 1000 Flywheel dia. 634 Weight 380 lb. Means of ignition compression Kind of fuel used gas oil

Crank Shaft, dia. of journals as per Rule 627 as fitted 627 Crank pin dia. 627 Crank Webs Mid. length breadth 84 Mid. length thickness 32 Thickness parallel to axis Thickness around eyehole

Flywheel Shaft, diameter as per Rule as fitted crank shaft Intermediate Shafts, diameter as per Rule as fitted Thickness of cylinder liners 9.5

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

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. one 52 gals./min. Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size one gear type 0.56 gals./min.

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

Scavenging Air Pumps, No. Diameter Stroke Driven by

AIR RECEIVERS:—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 efficient when the whole 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

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

SPARE GEAR

The foregoing is for & on behalf of THE NEWBURY DIESEL CO. LTD.

SECRETARY

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - } 7 Mar 1940  
{ During erection on board vessel - - - }  
Total No. of visits 3

Dates of Examination of principal parts—Cylinders 7.3.40 Covers 7.3.40 Pistons 7.3.40 Piston rods ✓

Connecting rods 7.3.40 Crank and Flywheel shaft 19.1.40 Intermediate shaft ✓

Crank and Flywheel shafts, Material S. Identification Mark N 1818. W.T.M. 18.

Intermediate shafts, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case? No If so, state name of vessel Standard approved engine.

General Remarks (State quality of workmanship, opinions as to class, &c. This engine was built under survey of tests materials and in accordance with approved standard plans. The materials workmanship are good. On completion the engine was placed into stock and has now been forwarded to Newcastle for installation in the vessel.

The amount of Fee ... £ 4 : 4 : When applied for, 28 FEB 1941  
Travelling Expenses (if any) £ : : When received, 19

DeWitt  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute  
Assigned