

Rpt. 4c.

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 125418

Received at London Office

Date of writing Report 6.9.52 When handed in at Local Office 6.9.52 Port of London

No. in Survey held at London Date, First Survey 6 August Last Survey 5 Sept 1952  
Reg. Book. Number of Visits 3

on the Single Screw vessel "NORDELITE" Tons Gross 119 Net 1

Built at Gove By whom built Gove S.B. &amp; Rep Co Ltd Yard No. 486 When built 1953

Owners North Eastern Industries Ltd Port belonging to St Johns

Oil Engines made at Dagenham By whom made Russell Newbery Contract No. 30CL 445 When made 1952

Generators made at By whom made Contract No. 11063 When made

No. of Sets 1 Engine Brake Horse Power 27 M.N. as per Rule Total Capacity of Generators Kilowatts.

Is Set intended for essential services Auxiliary

OIL ENGINES, &amp;c.—Type of Engines High speed Compression ignition 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 850 p.s.i. Diameter of cylinders 4 1/2" Length of stroke 6" No. of cylinders 3 No. of cranks 3

Mean indicated pressure 10.5 Firing order in cylinders Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 5 1/2

Is there a bearing between each crank Yes Moment of inertia of flywheel 22000 Revolutions per minute 1000

Flywheel dia 22" Weight 271 lbs Means of ignition Compression Kind of fuel used pool

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

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule General armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>)

Are means provided to prevent racing of the engine when declutched Yes Means of lubrication forced Kind of damper if fitted none

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 Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size 1 gear pump 2 gal/min

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

Have Torsional Vibration characteristics if applicable been approved Armature shaft Drawing No.

SPARE GEAR makes supply covering Rule Requirements To be accepted on ship

The foregoing is a correct description,

FOR &amp; ON BEHALF OF RUSSELL NEWBERRY &amp; CO LTD.

Manufacturer.



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Foundation

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Dates of Survey while building During progress of work in shops - - 6.27 Aug. 5 Sept 1952  
During erection on board vessel - - 3 in shops  
Total No. of visits  
Dates of Examination of principal parts - Cylinders 6.8.52 Covers 6.8.52 Pistons 6.8.52 Piston rods ✓  
Connecting rods 6.8.52 Crank and Flywheel shafts 22.8.52 Intermediate shafts  
Crank shaft Material EN8 Tensile strength 40 ton  
Elongation 20% Identification Marks LLOYDS 24870NN 15 7 52 JS  
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.

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

This engine has been built under Special Survey of tested materials. The engine was examined during erection and under full load condition the workmanship and materials are good. The engine is coupled to 15 KW Crompton Parkinson generator F102A 6652, Hamworthy air compressor 87639 and Hamworthy Centrif. water pump 90186 all secured to fabricated steel underbase.

The set is intended for Hepton Bros. Hull

This auxiliary unit has been efficiently installed on board this vessel and tested under full working conditions satisfactorily, and spare gear verified on board. The Hamworthy air compressor No 87627 per Lm # Rpt No 125293 has been changed with the above unit No 87639 which will be fitted in yd No H 876 follows. For Recommendations please see Hull # Rpt No 59337.

K. C. J. J. J.

Hull 14/53.

The amount of Fee ... £ 5 : : : : :  
Travelling Expenses (if any) £ : : : : :  
Committee's Minute

When applied for 22 SEP 1952

When received 19

FRIDAY 31 JUL 1953

Assigned

See F.E. mch. rpt.

P. M. Selley

Surveyor to Lloyd's Register of Shipping.



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