

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 124452

Submitting Report 15/4/1952 When handed in at Local Office 15/4/1952 Port of London  
 Survey held at London Date, First Survey 28 January Last Survey 26 March 1952  
 Number of Visits 3  
 on the <sup>Single</sup> ~~Twin~~ <sup>Triple</sup> ~~Quadruple~~ Screw vessel "Baker Langanyika"  
 Tons { Gross 8523 Net 4808  
 Sunderland By whom built Wm Saxford & Sons Ltd Yard No. 484 When built 1951  
 Overseas Tankship (UK) Ltd Port belonging to London  
 Engines made at Dagenham By whom made Russell Newbery & Co Ltd Eng No 10FL 7108 Contract No. When made 1952  
 s made at By whom made Contract No. When made  
 ts. 1 Engine Brake Horse Power 9 M.N. as per Rule Total Capacity of Generators Kilowatts.  
 ended for essential services Auxiliary 7108 8979

ENGINES, &c.—Type of Engines High speed compression ignition 2 or 4 stroke cycle 4 Single or double acting Single  
 pressure in cylinders 850 p.s.i. Diameter of cylinders 4 1/8" Length of stroke 6" No. of cylinders 1 No. of cranks 1  
 cated 105 Firing order in cylinders Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 1/16"  
 ssure bearing between each crank Yes Moment of inertia of flywheel 18229 lb sq in Revolutions per minute 1000  
 dia 20 1/2" Weight 264 lbs Means of ignition Compression Kind of fuel used pool  
 as per Rule As approved Crank pin dia 2 5/8" Crank Webs Mid. length breadth 3 1/2" Thickness parallel to axis  
 as fitted 22 shrunk Thickness round eyehole  
 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>)  
 as fitted s provided to prevent racing of the engine when declutched Yes Means of lubrication forced Kind of damper if fitted none  
 cylinders fitted with safety valves no Are the exhaust pipes and silencers water cooled or lagged with non-conducting material  
 Water Pumps, No. Is the sea suction provided with an efficient strainer which can be cleared within the vessel  
 ing Oil Pumps, No. and size 1 gear pump 2 gal/min  
 pressors, No. No. of stages Diameters Stroke Driven by  
 ing Air Pumps, No. Diameter Stroke Driven by

RECEIVERS:—Have they been made under Survey State No. of Report or Certificate  
 receiver, which can be isolated, fitted with a safety valve as per Rule  
 internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces  
 drain arrangement fitted at the lowest part of each receiver

Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness  
 lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules  
 Air Receivers, No. Total cubic capacity Internal diameter thickness  
 lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type  
 of supply volts. Full Load Current Amperes Direct or Alternating Current  
 ating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown  
 f Generators, are they compounded as per Rule is an adjustable regulating resistance fitted in series with each shunt field  
 terminals accessible, clearly marked, and furnished with sockets Are they so spaced  
 ed that they cannot be accidentally earthed, short circuited, or touched Are the lubricating arrangements of the generators as per Rule  
 nerators are under 100 kw. full load rating, have the makers supplied certificates of test and do the results comply with the requirements  
 nerators are 100 kw. or over have they been built and tested under survey  
 of driven machinery other than generator

s.—Are approved plans forwarded herewith for Shafting Receivers Separate Tanks  
 (If not, state date of approval)  
 rsional Vibration characteristics if applicable been approved Armature shaft Drawing No.  
 (state date of approval)  
 GEAR Malcom supply covering Rule Requirements To be used on ship

The foregoing is a correct description,

ON BEHALF OF RUSSELL NEWBERY &amp; CO. LTD.

Manufacturer.



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Lloyd's Register  
Foundation

111 004003-004008-0166



Dates of Survey while building { During progress of work in shops - - } 28 January 19-26 March 1952  
{ During erection on board vessel - - - }  
Total No. of visits 3 in shops

Dates of Examination of principal parts—Cylinders 28.1.52 Covers 28.1.52 Pistons 28.1.52 Piston rods  
Connecting rods 28.1.52 Crank and Flywheel shafts 28.1.52 Intermediate shafts

Crank shaft { Material EN8 Tensile strength 40 ton  
Elongation 20% Identification Marks Lloyds 1976 197

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 conditions, the engine is coupled to Hamworthy Air compressor no 87590 both secured to fabricated steel underbase.

The set is intended for W. Duxford, Sunderland N 4557 Ships 784/87

The amount of Fee ... £ 5 : —

When applied for 17/4/19 52

Travelling Expenses (if any) £ : :

When received 19

Committee's Minute

Assigned