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NN "JUTLAND" MAP IANTHE
No. 121959

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

Received at London Office

Date of writing Report 26 Feb 1951 When handed in at Local Office 28 Feb 1951 Port of London

No. in Survey held at London Date, First Survey 1st February Last Survey 21st February 1951

Reg. Book 5647F on the Single Screw vessel 87% "COULDEG" Number of Visits 3

68600 Tons { Gross 1217
Net 4019

Built at H. Kemp By whom built Lambert & Co Yard No. 1940-11

Owners Lambert & Co Port belonging to Harlow

Oil Engines made at Dagenham By whom made Russell Newbery & Co Ltd Contract No. 10EEL 5028 When made 1951

Generators made at By whom made Contract No. When made

No. of Sets 1 Engine Brake Horse Power 11 M.N. as per Rule Total Capacity of Generators Kilowatts

Is Set intended for Fire pump set

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

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

Mean indicated pressure 10.5 Firing order in cylinders Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 6 1/2"

Is there a bearing between each crank Yes Moment of inertia of flywheel 18229 (16 m² or Kg.-cm.²) Revolutions per minute 1200

Flywheel dia. 20 1/2" Weight 264 lbs Means of ignition Compression Kind of fuel used pool

Crank Shaft, dia. of journals as per Rule as approved Crank pin dia. 2 5/8" Crank Webs Mid. length breadth 3 1/2" Thickness parallel to axis Mid. length thickness 1 5/8" Thickness round eyehole

Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule General armature, moment of inertia (16 m² or Kg.-cm.²)

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 from main pump thro head tank 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 makers supply covering Rule Requirements. To be used on ship

The foregoing is a correct description,
FOR AND ON BEHALF OF
SSELL NEWBERY & CO. LTD.
M. J. Pugh Manufacturer.



Dates of Survey while building { During progress of work in shops - - } 1-17-21 February 1951
 { During erection on board vessel - - - }
 Total No. of visits 3 in shops

Dates of Examination of principal parts—Cylinders 1-2-51 Covers 1-2-51 Pistons 1-2-51 Piston rods ✓

Connecting rods 1-2-51 Crank and Flywheel shafts 1-2-51 Intermediate shafts ✓

Crank shaft { Material EN 8 Tensile strength 40 ton
 Elongation 25% Identification Marks Lloyds L239 B 21 12 50

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 constructed under special survey of listed materials. The engine was examined during erection and under full load conditions. The materials and workmanship are good. The engine is directly coupled to Hamworthy Centrifugal water pump No 85060 both secured to fabricated steel underbase. The set is intended for J. Lamont, Port Glasgow. "COLLIEG"

500,448—T. (MADE AND PRINTED IN ENGLAND)
 (The Surveyors are requested not to write out or below the space for Committee's Minute.)

The amount of Fee ... £ 4 : 0 : 0 When applied for 28 FEB 19 51
 Travelling Expenses (if any) £ : : When received 19

Committee's Minute
 Assigned

P. Seller
 Surveyor to Lloyd's Register of Shipping.

