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Ref. 40.

NN "JUTLAND" MAP 121959

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

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 5647 on the Single Screw vessel 871 "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 Harbour
Oil Engines made at Dagenham By whom made Russell Newbery & Co Ltd Eng No 10EL 5028
Contract No D8279 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 1/8" 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 1/16"
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 2 1/2" Crank pin dia. 2 5/8" Crank Webs Mid. length breadth 3 1/2" Thickness parallel to axis ✓
as fitted ✓ Mid. length thickness 1 5/8" Thickness round eye-hole ✓
Flywheel Shaft, diameter as per Rule ✓ Intermediate Shafts, diameter as per Rule ✓ General armature, moment of inertia (16 m² or Kg.-cm.²) ✓
as fitted ✓ as fitted ✓

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 1 1/2" 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 ✓
(If not, state date of approval) ✓
Have Torsional Vibration characteristics if applicable been approved ✓ Armature shaft Drawing No. ✓
(state date of approval) ✓

SPARE GEAR makers supply covering Rule Requirements. To be used on ship

The foregoing is a correct description,
FOR AND ON BEHALF OF
RUSSELL NEWBERY & CO. LTD.
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"

The amount of Fee ... £ 4 : 0 : 0 When applied for 28 FEB 1951

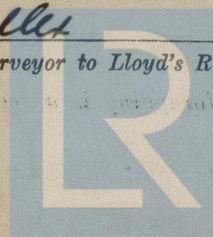
Travelling Expenses (if any) £ : : When received 19

Committee's Minute

Assigned

Inspector

Surveyor to Lloyd's Register of Shipping.



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