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EP 1950

NEWCASTLE-ON-TYNE, N. 108234.

D.O.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 13187

50 AUG 1950

of writing Report 24th Aug 50 When handed in at Local Office 19 Port of London
 in Survey held at Katinsborg Date, First Survey 22nd Aug 50 Last Survey 24th Aug 19 50
 Book. Single on the Twin Triple Quadruple Screw vessel RDSA MAERSK Number of Visits 2
 at Blyth By whom built James R. & Co. Dry Dock and Ship-Building Co. Ltd. Yard No. 348 When built 1950
 Engines made at Katinsborg By whom made Motorfabriken Burkh Contract No. 6437 When made 1950
 rators made at Oslo By whom made Thomas B. Thinge Contract No. 303768 When made 1950
 of Sets 2 Engine Brake Horse Power 75 M.N. as per Rule ✓ Total Capacity of Generators 88 Kilowatts.
 it intended for essential services No.

ENGINE, &c.—Type of Engines Heavy oil, trunk piston, type 40/60 2 or 4 stroke cycle 4 Single or double acting Single
 mum pressure in cylinders 55 kg/cm² Diameter of cylinders 160 mm Length of stroke 230 mm No. of cylinders 4 No. of cranks 4
 indicated pressure 7.3 kg/cm² Firing order in cylinders 1-2-4-3 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 165 mm
 ere a bearing between each crank Yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) 72 x 10⁴ Revolutions per minute 625
 wheel dia. 700 mm Weight 255 kg Means of ignition compression Kind of fuel used Heavy oil
 k Shaft, dia. of journals as per Rule 115 mm Crank pin dia. 105 mm Crank Webs Mid. length breadth 165 mm Thickness parallel to axis ✓
as fitted Mid. length thickness 45 mm Thickness round eye-hole ✓
 Two. as per Rule ✓ as per Rule ✓ General armature, moment of inertia (16 m² or Kg.-cm.²) ✓
 heel Shaft, diameter as fitted ✓ Intermediate Shafts, diameter as fitted ✓
 means provided to prevent racing of the engine when declutched Yes Means of lubrication forced Kind of damper if fitted ✓
 the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material water cooled
 ing Water Pumps, No. 1 off 1.85 t/h Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓
 icating Oil Pumps, No. and size 1 off 4.6 t/h
 Compressors, No. ✓ No. of stages ✓ Diameters ✓ Stroke ✓ Driven by ✓
 enging Air Pumps, No. ✓ Diameter ✓ Stroke ✓ Driven by ✓

RECEIVERS:—Have they been made under Survey ✓ State No. of Report or Certificate ✓
 ch, receiver, which can be isolated, fitted with a safety valve as per Rule ✓
 the internal surfaces of the receivers be examined ✓ What means are provided for cleaning their inner surfaces ✓
 ere a drain arrangement fitted at the lowest part of each receiver ✓
 Pressure Air Receivers, No. ✓ Cubic capacity of each ✓ Internal diameter ✓ thickness ✓
 less, lap welded or riveted longitudinal joint ✓ Material ✓ Range of tensile strength ✓ Working pressure by Rules ✓
 ing Air Receivers, No. ✓ Total cubic capacity ✓ Internal diameter ✓ thickness ✓
 less, lap welded or riveted longitudinal joint ✓ Material ✓ Range of tensile strength ✓ Working pressure by Rules ✓
 CTIC GENERATORS:—Type Drip proof ventilated, Type C.L. 196
 ure of supply 110 volts. Full Load Current 400 Amperes. Direct or Alternating Current Direct
 ernating current system, state the periodicity ✓ Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown
 d off Yes Generators, are they compounded as per Rule Yes is an adjustable regulating resistance fitted in series with each shunt field Yes
 U terminals accessible, clearly marked, and furnished with sockets Yes Are they so spaced Yes
 elded that they cannot be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes
 generators are under 100 kw. full load rating, have the makers supplied certificates of test Yes and do the results comply with the requirements Yes
 generators are 100 kw. or over have they been built and tested under survey ✓
 s of driven machinery other than generator ✓

NS.—Are approved plans forwarded herewith for Shafting No 20/2-50 for Receivers ✓ Separate Tanks ✓
 (If not, state date of approval) Final shafting plan 1/2
 Torsional Vibration characteristics if applicable been approved ✓ Armature shaft Drawing No. ✓
 (state date of approval)
 RE GEAR as per Rules

The foregoing is a correct description,
 MOTORFABRIKEN BURKH
 AKTIESELSKAB Maey Manufacturer.



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Lloyd's Register
 Foundation

Dates of Survey while building: During progress of work in shops - - 1950: 22/5 - 12/6 - 2/8;
 During erection on board vessel - - 3.
 Total No. of visits - - 3.

Dates of Examination of principal parts—Cylinders... and Covers... and Pistons... 22/5-50 Piston rods...
 Connecting rods... 22/5-50 Crank and Flywheel shafts... 22/5-50 Intermediate shafts...
 Crank shaft: Material... 144 In. Steel Tensile strength... 67.5-68.1 kg/mm²
 Elongation... 25.1-25.3 on 75mm. Identification Marks... ENG. N° 6437-6
 Shaft. LLOYD'S N° 6561-6
 55. 22/5-50
 Flywheel shaft, Material... Identification Marks...
 Identification marks on Air Receivers...

Is this machinery duplicate of a previous case... If so, state name of vessel...

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 The above generating sets, originally approved for Ocean Transport Gard 112 on the 20/2-50, has now been transferred to the above Gard N°.
 The engines have been constructed under Special Licence in accordance with the Rules and plans approved.
 The material has been examined and tested as required by the Rules and the workmanship is good.
 The engines with the generators fitted have been tested and the maker works and found to work satisfactorily.
 The generating sets will now be forwarded to the Gard for installation.

5m. 1.48-T. (MADE AND PRINTED IN ENGLAND)

The amount of Fee ... £ 400.- : When applied for... 24/8 19 50
 Travelling Expenses (if any) £ 50.- : When received... 19

Committee's Minute...
 Assigned... See F.E. suchy rpt

FRI. 4 MAY 1951



Rpt. 13.
 Date of writi...
 No. in S...
 Reg. Book...
 95494...
 Built at...
 Owners...
 Installation...
 Is vessel e...
 Plans, have...
 Heating...
 Prime Move...
 with a trip...
 if not comp...
 in parallel...
 NEGATIVE...
 test for ma...
 Position of...
 is the vent...
 damage fro...
 are they in...
 steam and o...
 material is i...
 per Rule...
 for each gen...
 CURRENT...
 and the swit...
 Are compart...
 ammeters...
 protection d...
 Switches, Cir...
 make of fuses...
 overload do t...
 Joint Boxes...
 Cables, are th...
 state maximu...
 area of 0.01 s...
 cables sealed...
 high temperat...
 adequately pr...
 or of the "H...
 CLIPPED T...
 Are all lead sh...
 bulkheads pro...
 effectively bus...
 Alternative Lig...