

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 568

7-APR 1952

Writing Report 11th March 1952 When handed in at Local Office 11th March 1952 Port of K I E L
 Survey held at Kiel Date, First Survey 12th December 51 Last Survey 18th January, 19 52
 Number of Visits 8
 Gross 3137
 Net 2585
 Tons
 When built 1911
 Yard No. -
 By whom built Blohm & Voss
 Hamburg
 Rederei Schliewen
 Port belonging to Lübeck
 By whom made Messrs. Bohr & Kähler
 Engine No. 14102 When made 1951
 Hamburg
 By whom made A.E.G.
 Generator No. 563741 When made 1951
 B.H.P. of each Set 28 M.N. as per Rule - Capacity of each Generator 15 Kilowatts.
 attended for essential services no

ENGINE, &c.—Type of Engines Heavy oil Type KR 10 Z 2 or 4 stroke cycle 4 Single or double acting S.A.
 pressure in cylinders 55kg/cm² Diameter of cylinders 140 mm Length of stroke 190 mm No. of cylinders 2 No. of cranks 2
 indicated pressure 6.9 kg/cm² Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 185
 a bearing between each crank yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) - Revolutions per minute 750
 " " " balance wts. " " " -
 dia. 850 mm Weight 360 kg Means of ignition compression Kind of fuel used Diesel
 Shaft, Solid forged as per Rule - Mid. length breadth 105 mm Thickness parallel to axis -
 Semi-built dia. of journals as fitted 85 mm Crank pin dia 85 mm Crank Webs Mid. length thickness 44 mm Thickness round eye-holes -
 All-built as fitted -
 Steel Shaft, diameter as per Rule - Generator armature, moment of inertia (16 m² or Kg.-cm.²) -
 as fitted -
 Means provided to prevent racing of the engine yes Means of lubrication forced Kind of damper if fitted -
 cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material yes
 Water Pumps, No. and how driven one -1060 ltr./hr. Is the sea suction provided with an efficient strainer which can be cleared within the vessel. yes

ating rods -
 shaft -
 on bolts 3.1.52
 ing Air Pumps or Blowers, No. -
 How driven -

RECEIVERS:—Have they been made under Survey Germanischer Lloyd State No. of Report or Certificate -
 other than main engines
 all details of safety devices Safety valve fitted to each of the air receiver.
 internal surfaces of the receivers be examined and cleaned yes
 a drain arrangement fitted at the lowest part of each receiver yes

Pressure Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -
 is, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure -
 Air Receivers, No. 7 Total cubic capacity 60 + 32 m³ Internal diameter 420 + 318 mm thickness 16 + 7.25 mm
 is, lap welded or riveted longitudinal joint Seamless Material SM-Steel Range of tensile strength 60.5 kg/sq.cm Working pressure 106 + 52 kg/cm²

TRIC GENERATORS:—Type A W 84, Makers: A.E.G. Hamburg
 re of supply 230 volts. Full Load Current 65 A Amperes. Direct or Alternating Current DC - current
 mating current system, state the periodicity - Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown
 off yes Generators, are they compounded as per Rule yes is an adjustable regulating resistance fitted in series with each shunt field yes
 terminals accessible, clearly marked, and furnished with sockets yes Are they so spaced
 torsional vibration that they cannot be accidentally earthed, short circuited, or touched yes Are the lubricating arrangements of the generators as per Rule yes
 ts. The engi 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
 tisfactory r generators 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 no Receivers - Separate Tanks -
 (If not, state date of approval)
 torsional Vibration characteristics if applicable been approved no Armature shaft Drawing No. -
 (State date of approval and name of previous duplicate case, if any)
 spare gear required by the Rules been supplied As per Rule requirements.

The foregoing is a correct description,

Manufacturer.



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Dates of Survey while building During progress of work in shops - - - - -
During erection on board vessel - - - - - 12, 17, 18/12/51 & 3, 8, 16, 17 + 18/1/52
Total No. of visits 8

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

Crank shaft Material S.M. Steel Tensile strength See 1st Cert enclosed
Elongation Best.No. 4161.BKR 10.3 DEW 3123
Identification Marks 86 A. Cl 1st 51

Flywheel shaft, Material Identification Marks

Identification marks on Air Receivers 6 main 21422 H, Nos. 10000, 10002, 10008, 10009, 10010, 10011, 11 51, Cl.PD.60 ATU, 1 In

1 auxiliary receiver: CH 47448, 12, 51, 144/3. Cylinder Covers: 5/75 atü, 9 51. Cylinder Block: Germanischer Lloyd 15272 K, 10 51, 5 atü,

Is this machinery duplicate of a previous case yes If so, state name of vessel "PAMIR"

GENERAL REMARKS (State quality of workmanship, opinions as to class, etc.) This generator set has been built and hydraulically tested under the survey of Germanischer Lloyd.

The engine has now been opened out and examined internally, one cylinder cover tested hydraulically with satisfactory results. The workmanship and materials appear good. The generator set has been satisfactorily installed on board the vessel and subsequently examined under working conditions and found in good order.

This generator set is eligible, in my opinion, to be classed with the notation LMC 1.52, without the distinguishing mark *.

The amount of Fee ... £ : : When applied for 19

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

see Report 8
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TUES. 1 JUL 1952

Committee's Minute

Assigned

Surveyor to Lloyd's Register of Shipping.



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