

Rpt. 4c.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 10940

JUL 1953

Date of writing Report July 1 1953 When handed in at Local Office _____ 19____ Port of AMSTERDAM

No. in Survey held at AMSTERDAM Date, First Survey 7th January Last Survey 17th June 1953
Reg. Book. _____ Number of Visits 3

Single on the Twin Triple Quadruple Screw vessel 'BEKAKA' Tons Gross _____ Net _____

Built at _____ By whom built _____ Yard No. _____ When built _____
Scheepswaarf, De Hoop at Leiden Yard No 1427 Port belonging to _____

Oil Engines made at AMSTERDAM By whom made N.V. Kromhout Motorenfabriek Engine No. 13028 When made 1953

Generators made at Slakkerwee By whom made Electrotechn. Ind. SMIT Generator No. 40456 When made 1953

No. of Sets _____ B.H.P. of each Set 30 M.N. of each Set as per Rule 6 Capacity of each Generator 15 Kilowatts

Set intended for essential services One engine

OIL ENGINES, &c.—Type of Engines Heavy oil eng. type 3 GSV100 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 55 kg/cm² Diameter of cylinders 100 mm Length of stroke 152.4 mm No. of cylinders 3 No. of cranks 3

Mean indicated pressure 9.9 kg/cm² Span of bearings (i.e. distance between inner edges of bearings in way of a crank) 121 mm

Is there a bearing between each crank yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) _____
" " " " balance wts. " " " _____ Revolutions per minute 1000

Flywheel dia. 660 mm Weight 275 Kg Means of ignition Compression Kind of fuel used Diesel oil

Crank Shaft, { Solid forged dia. of journals _____ as per Rule. as app. plan
Semi-built _____ Crank pin dia. 73 mm Crank Webs Mid. length breadth as app. Thickness parallel to axis _____
All-built _____ as fitted Ø 1.5 mm with c.r. 1.5 mm Mid. length thickness plan shrunk Thickness round eyehole _____

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

Are means provided to prevent racing of the engine yes Means of lubrication forced Kind of damper if fitted _____

Are the cylinders fitted with safety valves NO Are the exhaust pipes and silencers water cooled enlagged with non-conducting material yes

Cooling Water Pumps, No. and how driven 1 AB-100 Is the sea suction provided with an efficient strainer which can be cleared within the vessel _____

Lubricating Oil Pumps, No. and size 1 - 6 1/2 lbs/min

Air Compressors, No. 1 No. of stages 2 Diameters 95-110 mm Stroke 85 mm Driven by aux eng.

Scavenging Air Pumps or Blowers, No. _____ How driven _____

AIR RECEIVERS:—Have they been made under Survey Eng. started by hand State No. of Report or Certificate _____
(other than main engines)

State full details of safety devices _____

Can the internal surfaces of the receivers be examined and cleaned _____

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 _____

Starting Air Receivers, No. _____ Total cubic capacity _____ Internal diameter _____ thickness _____

Seamless, lap welded or riveted longitudinal joint _____ Material _____ Range of tensile strength _____ Working pressure _____

ELECTRIC GENERATORS:—Type G 270

Pressure of supply 115 volts. Full Load Current 130 Amperes. Direct or Alternating Current DC

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 yes 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 _____

Are they shielded that they cannot be accidentally earthed, short circuited, or touched _____ Are the lubricating arrangements of the generators as per Rule yes

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 See added copy cert Rotterdam No. 16266

Details of driven machinery other than generator Two Stage 1 cyl air compressor No 2103 type TK 285 See added cert Rotterdam 14626

SHAFTS.—Are approved plans forwarded herewith for Shafting _____ Receivers _____ Separate Tanks _____
(If not, state date of approval) 2-1-53

Have Torsional Vibration characteristics if applicable been approved _____ Armature shaft Drawing No. _____
(State date of approval and name of previous duplicate case, if any)

Is the spare gear required by the Rules been supplied _____

The foregoing is a correct description,
KROMHOUT MOTOREN FABRIEK
J. Goedkoop Jr. N.V. Amsterdam
J. Kandelshoff Manufacturer.



JM
21
7
53

40 18940

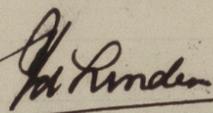
Dates of Survey while building: During progress of work in shops - - 7/1 - 13/1 - 17/6-'53
 During erection on board vessel - - - 3
 Total No. of visits - - - 3
 Dates of Examination of principal parts: Cylinders 13-1-'53 Covers 7-1-53 Pistons 7-1-53 Piston rods
 Connecting rods 7-1-53 Crank and Flywheel shafts 7-1-53 Intermediate shafts
 Crank shaft: Material S.M. steel Tensile strength 67.3 kg/mm²
 Elongation 22.8% Identification Marks Lloyd's 977c
 Flywheel shaft, Material Identification Marks 118 17-9-51
 Identification marks on Air Receivers J.D. 7-1-53

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

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)
 This engine has been built under special survey in accordance with approved plans Secretary, Letters and Society Rules
 Materials tested as required and workmanship found good
 This set has been tested under full load condition on Makers tested and found functioning satisfactory.
 Copy cert. Amsterdam F 4097 dd. 8-1-53 of crankshaft, copy cert. Rotterdam No. 14626 dd. 27-1-53 of aircompressor and copy cert. Rotterdam No. 16266 dd. 22-6-53 of generator added.
 After testing and inspection this set is shipped to Scheepswaag "De Hoop" at Leiden destination yard No. 1429 (M.S. "BEKAKA" for Indonesian Government)

401,552-T. (MADE AND PRINTED IN ENGLAND)
(The Surveyors are requested not to write on or below the space for Committee Minutes.)

The amount of Fee ... £ : 55.- When applied for 4-7 1953
 Travelling Expenses (if any) £ : 3.- When received 19


 Surveyor to Lloyd's Register of Shipping.

Committee's Minute THURSDAY 26 NOV 1953
 Assigned See Rpt. 4 p.

