

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 Reg. Book. Survey held at AMSTERDAM Date, First Survey 7th January Last Survey 17th June 1953  
 Number of Visits 3

Single  
on the Twin  
Triple  
Quadruple

Screw vessel

'BEKAKA'

Tons { Gross.....  
Net.....

Built at Scheepswaerf, De Hoop at Leiden By whom built Yard No. 1427 Port belonging to AMSTERDAM  
 Yard No. 1427 When built 1953

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

Generators made at Slipkruis By whom made Elektrotechn. Ind. Smit Generator No. 40456 When made 1953

No. of Sets 1 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 GSV 100 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 55 kg/cm<sup>2</sup> 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/cm<sup>2</sup> 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 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) 121 mm

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

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

Flywheel Shaft, diameter as per Rule Generator armature, moment of inertia (16 m<sup>2</sup> or Kg.-cm.<sup>2</sup>) as fitted

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 - 6 1/2 lts/min Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes

Lubricating Oil Pumps, No. and size 1 - 6 1/2 lts/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. 1 How driven Eng.

AIR RECEIVERS:—Have they been made under Survey Eng. started by hand State No. of Report or Certificate 21/7/53

(other than main engines) State full details of safety devices Eng. started by hand

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

Is there a drain arrangement fitted at the lowest part of each receiver yes

High Pressure Air Receivers, No. 1 Cubic capacity of each 1.5 m<sup>3</sup> Internal diameter 100 mm thickness 1.5 mm

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

Starting Air Receivers, No. 1 Total cubic capacity 1.5 m<sup>3</sup> Internal diameter 100 mm thickness 1.5 mm

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

Is there an 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 yes is an adjustable regulating resistance fitted in series with each shunt field yes

Are all terminals accessible, clearly marked, and furnished with sockets yes Are they so spaced yes

Are the generators shielded that they cannot be accidentally earthed, short circuited, or touched yes 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 yes and do the results comply with the requirements yes

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 2-1-53 Receivers 21/7/53 Separate Tanks 21/7/53

Have Torsional Vibration characteristics if applicable been approved yes Armature shaft Drawing No. 21/7/53

Is the spare gear required by the Rules been supplied yes

The foregoing is a correct description,

KROMHOUT MOTOREN FABRIEK  
 J. Goedkoop Jr. N.V. Amsterdam

Manufacturer.



© 2021

Lloyd's Register  
 Foundation

010416-010427-0280



4<sup>c</sup> 18940

Dates of Survey while building  
During progress of work in shops - -  
During erection on board vessel - - -  
Total No. of visits

7/1 - 13/1 - 17/6 '53

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  
Elongation 22.8%

Tensile strength 67.3 kg/mm<sup>2</sup>

Identification Marks Lloyd's 977c

Identification Marks 18-17-51 J.D. 7-1-53

Flywheel shaft, Material

Identification marks on Air Receivers

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 Motors 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 Scheepsweg "De Hoop" at Leiden destination yard No. 1429 (M.S. "BEKAKA" for Indonesian Government)

The amount of Fee ... £ 55.-

When applied for 4-7 1953

Travelling Expenses (if any) £ 3.-

When received 19

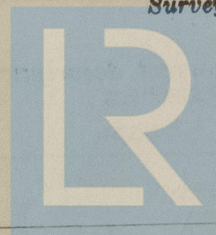
Committee's Minute

THURSDAY 26 NOV 1953

Assigned

See Rpt. 4th

Surveyor to Lloyd's Register of Shipping.



© 2021

Lloyd's Register Foundation