

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 18166

Received at London Office 11 FEB 1929

Date of writing Report 4.1.1929 When handed in at Local Office

Port of Rotterdam

No. in Survey held at
Reg. Book.

Flushing

Date, First Survey 19.1.1929

Last Survey 23.12.1928

Number of Visits 1

on the ^{Single}
^{Twin}
^{Triple}
^{Quadruple} Screw vessel

"KOTA BAROE"

Tons { Gross
Net

Built at Flushing By whom built Kon. My. "De Schelde" Yard No. 103 When built 1929

Owners Rotterdamse Lloyd Port belonging to Rotterdam

Oil Engines made at Flushing By whom made Kon. My. "De Schelde" Contract No. When made 1929

Generators made at Lelidewer By whom made NV. Elektrotechnische Industrie Contract No. When made 1929

No. of Sets 3 Engine Brake Horse Power Nom. Horse Power as per Rule 16 Total Capacity of Generators 360 Kilowatts.

OIL ENGINES, &c.—Type of Engines Sulzer Diesel 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 500 lbs Diameter of cylinders 310 mill Length of stroke 360 mill No. of cylinders 4 No. of cranks 4

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 389 mill Is there a bearing between each crank Yes

Revolutions per minute 300 Flywheel dia. 1600 mill Weight 3400 kg Means of ignition Compression Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as ^{approx} 175 mill Crank pin dia. 175 mill Crank Webs Mid. length breadth 170 mill Thickness parallel to axis shrunkFlywheel Shaft, diameter as ^{approx} 200 mill Intermediate Shafts, diameter as ^{approx} 160 mill Thickness of cylinder liners 24 mill

Is a governor or other arrangement fitted to prevent racing of the engine when declutched Yes Means of lubrication Forced

Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Yes

Cooling Water Pumps, No. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size Vacuum pump

Air Compressors, No. 1 No. of stages 3 Diameters 40/205-180/120-100/200 mill Driven by Steam Engine

Scavenging Air Pumps, No. 1 Diameter 1 Stroke 1 Driven by 1

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes

Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Covers

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

High Pressure Air Receivers, No. 3 Cubic capacity of each 27 liter Internal diameter 184 mill thickness 10 mill

Seamless, lap welded or riveted longitudinal joint Hammer Material S.M. Steel Range of tensile strength 41-47.5 kg Working pressure by Rules

Starting Air Receivers, No. 1 Total cubic capacity 1 Internal diameter 1 thickness 1

Seamless, lap welded or riveted longitudinal joint 1 Material 1 Range of tensile strength 1 Working pressure by Rules 1

ELECTRIC GENERATORS:—Type G. 823

Pressure of supply 220 volts Load 3 à 530 Amperes Direct or Alternating Current Direct

If alternating current system, state frequency of periods per second 4

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes

Generators, do they comply with the requirements regarding rating Yes are they compound wound Yes

are they over compounded 5 per cent. Yes, if not compound wound state distance between each generator

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

PLANS. Are approved plans forwarded herewith for Shafting (If not, state date of approval)

Receivers

Separate Tanks

SPARE GEAR One cylinder cover complete with valves, springs etc. One set of fuel needles.

One set of piston rings. One set of studs and nuts for one cylinder. 2 crosshead trapez one gudgeon pin, 2 crankpin bearing bolts, 2 main bearing bolts, a complete set of piston rings for air compressor. A set of valves for air compressor. A fuel pump complete and further as per owners specification.

The foregoing is a correct description,

Flushing, 6th February 1929

KON. MY. "DE SCHELDE".

H. H. Meulder

Manufacturer.



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Dates of Survey while building
During progress of work in shops - 1927 3/11 1928 19/11 30/6 17/12 13/13 28/12 18/14 21/4 26/4
During erection on board vessel - 1928 14/5 27/7 24/8 25/10 23/12
Total No. of visits 17.

Dates of Examination of principal parts—Cylinders 19/11 30/11 17/12 13/12 Covers 30/11 17/12 13/12 Pistons 25.2.28 Piston rods 2

Connecting rods 3/11 27. 19/11. 28 Crank and Flywheel shaft 30.1.28 Intermediate shaft 2

Crank and Flywheel shaft, Material IM Steel Identification Mark LL 44015
2292.7471.7479
15.8.27. Intermediate shafts, Material 2 Identification Marks 2

Is this machinery duplicate of a previous case Yes If so, state name of vessel KOTA RADJA

General Remarks (State quality of workmanship, opinions as to class, &c. These engines have been made under special survey in accordance with the approved plans of the Society's Rules and Secretary's letters, material tested as required and workmanship good. They have been found in a good working condition when tried.

The amount of Fee ... £ : : When applied for, 19.
Travelling Expenses (if any) £ : : When received, 19.

Committee's Minute FRI. 15 FEB 1929

Assigned See S. 1. 1. 1. attached



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