

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 17819

at. 4c.

Received at London Office

Date of writing Report 14.9.1928 When handed in at Local Office 19 Port of Rotterdam
 Date, First Survey 16 Dec 1927 Last Survey 4 Sept 1928
 No. in Survey held at Rotterdam Number of Visits 25

on the ^{Single} ~~Triple~~ Screw vessel "KOTA CEDE"
 built at Rotterdam By whom built My Tjenwoord Yard No 309 When built 1928
 Owners Rotterdamse Lloyd Port belonging to Rotterdam
 Engines made at Rotterdam By whom made My Tjenwoord Contract No. When made 1928
 Generators made at Hekherveen By whom made Contract No. When made 1928
 No. of Sets 2 Engine Brake Horse Power Nom. Horse Power as per Rule Total Capacity of Generators 400 Kilowatts.

TYPE OF ENGINES, &c. Type of Engines M. A. C. Diesel 2 or 4 stroke cycle 4 Single or double acting Single
 Maximum pressure in cylinders 35 kg Diameter of cylinders 425 mm Length of stroke 600 No. of cylinders 3 No. of cranks 3
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 500 mm Is there a bearing between each crank Yes
 Revolutions per minute 250 Flywheel dia. 2500 mm Weight 10300 kg Means of ignition Compression Kind of fuel used Diesel oil
 Crank Shaft, dia. of journals as ^{appn} 269.9 mm Crankpin dia. 169.9 mm Mid. length breadth 380 mm Thickness parallel to axis 2
 as fitted 269.9 mm Mid. length thickness 145 mm Thickness around eye hole 2
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 30 mm gromidd.
 as fitted 500 mm
 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. Two Is the sea suction provided with an efficient strainer which can be cleared within the vessel
 Lubricating Oil Pumps, No. and size One (toothed wheel). 72 x (330-290) x (330-72) mm.
 Air Compressors, No. One No. of stages three Diameter 330 mm Stroke 250 mm Driven by engine
 Scavenging Air Pumps, No. 1 Diameter 160 mm Stroke 160 mm 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. 2 Cubic capacity of each 80 liters Internal diameter 405 mm thickness 17.5 mm
 Seamless, lap welded or riveted longitudinal joint Seamless Material S. M. Steel Range of tensile strength Working pressure by Rules
 Starting Air Receivers, No. 1 Total cubic capacity Internal diameter thickness
 Seamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

ELECTRIC GENERATORS:—Type Compound
 Pressure of supply 220 volts. Load 900 Amperes. Direct or Alternating Current Direct
 If alternating current system, state frequency of periods per second 1
 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 1
 Is an adjustable regulating resistance fitted in series with each shunt field 1 Are all terminals accessible, clearly marked, and furnished with sockets
 Are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched 1 Are the lubricating arrangements of the generators as per Rule

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

SPARE GEAR One cylinder cover complete with valves, springs etc. One set of fuel valves, One set of piston rings. One set of studs and nuts for one cylinder 2 crosshead brags and one pin, 2 crankpin bearing bolts, 2 main bearing bolts a complete set of piston rings for aircompressor, a set of valves for aircompressor a fuel pump complete and further as per owners specification

The foregoing is a correct description,
 Maatschappij voor Scheeps- en Werktuigbouw

"FIJENOORD"

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - 2/9 6/11 10/16 29/3 6/13 14/14 25/30 3/4 25/7 10/13 14/18
 { During erection on board vessel - - - 22/10 28/18 4/19
 Total No. of visits

Dates of Examination of principal parts—Cylinders 9/12 7/13 29/15 5/15 Covers 15/4 5/5 Pistons 6/4 25/4 23/4 Piston rods

Connecting rods 3/4 25/4 23/4 Crank and Flywheel shaft Made in Intermediate shaft Germany

Crank and Flywheel shaft, Material S. M. Steel Identification Mark LLOYD Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case Yes If so, state name of vessel "Koto Inten" (made at Augsburg)

General Remarks (State quality of workmanship, opinions as to class, &c.) This engine has been made under special survey in accordance with the approved plans Society's Rules and Secretary's letters material tested as required and workmanship good and was 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 TU 16 OCT 1928
 Assigned



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