

# REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 19959

Received at London Office

24 DEC 1930

Writing Report 12.12.1930 when handed in at Local Office

19 Port of

Rotterdam

Survey held at

Rotterdam

Date, First Survey 29.5.29

Last Survey 25.11.1930

Number of Visits 17

on the <sup>Single</sup> ~~Triple~~ ~~Quadruple~~ Screw vessel

"TARAKAN"

Tons { Gross 8186  
Net 4914

at Rotterdam

By whom built Mr. Tienoord

Yard No. 318 When built 1930

Hoornvaart M. Nederland

Port belonging to Amsterdam

Engines made at Rotterdam

By whom made Mr. Tienoord

Contract No. When made 1930

Generators made at Alkmaar

By whom made Electrotechnische Industrie M. Smit

Contract No. When made 1930

of Sets 4 Engine Brake Horse Power

Nom. Horse Power as per Rule

Total Capacity of Generators 720 Kilowatts.

ENGINES, &c.—Type of Engines Solid injection Diesel 2 or 4 stroke cycle 4 Single ~~double~~ acting

Maximum pressure in cylinders 45 1/2 lbs. Diameter of cylinders 275 mm Length of stroke 420 mm No. of cylinders 6 No. of cranks 6

of bearings, adjacent to the Crank, measured from inner edge to inner edge 345 mm Is there a bearing between each crank Yes

Revolutions per minute 325 Flywheel dia. Weight Means of ignition Compressor Kind of fuel used Diesel oil

Crank Shaft, dia. of journals as per Rule 170 mm as fitted 170 mm Crank pin dia. 170 mm Crank Webs Mid. length breadth 275 mm Thickness parallel to axis shrunk Mid. length thickness 85 mm Thickness around eye hole

Wheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 16 mm

governor or other arrangement fitted to prevent racing of the engine when declutched Means of lubrication Turbine

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

Working Water Pumps, No. 2 Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size 2

Compressors, No. No. of stages Diameters Stroke Driven by

Exhausting Air Pumps, No. Diameter Stroke Driven by

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

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

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

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 by Rules

Starting Air Receivers, of Main receivers 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

Pressure of supply 220 volts. Load each 180 Amperes. Direct or Alternating Current Direct

alternating current system, state frequency of periods per second

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 9.2.29 Receivers Separate Tanks

PREPARE GEAR: Complete set of valves for one cylinder, with springs and other fittings. One set of fuel needles, one cylinder liner, one piston, one set of piston rings. A set of studs and nuts for one cylinder. 2 crankpin bolts and washers. 2 main bearing bolts and washers, crosshead pins and washers. A complete full pump, and further in excess of the rules as per owners specification.

The foregoing is a correct description,

Maatschappij voor Scheeps- en Werktuigbouw

W. J. TIENoord

Manufacturer.



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003401-003408-0103



Dates of Survey while building { During progress of work in shops - - 1929 29/1 24/6 8/8 18/8 9/10 21/10 29/10 1/11 5/11 9/11 12/11 15/11 18/11 29/11 1930 14/1 25/1 4/2 25/2 27/2 }  
 { During erection on board vessel - - - 14/3 21/3 27/3 19/4 19/6 }  
 Total No. of visits 1930 29/1 25/11 . cr. of visits 27

Dates of Examination of principal parts—Cylinders 16/12 20/12 29/12 Covers made Pistons m Piston rods Gum

Connecting rods 1/10 9/10 1/11 29 Crank and Flywheel shaft made in Germany Intermediate shaft

Crank and Flywheel shaft, Material L.M. Steel Identification Mark 440706 3528 3391 8466 11115 Intermediate shafts, Material Identification Marks

Is this machinery duplicate of a previous case No If so, state name of vessel

General Remarks (State quality of workmanship, opinions as to class, &c.) These engines have been made in accordance with the approved plans, to the satisfaction of the Rules and Secretary. Little material tested as required and workmanship good

Im. 7.28—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)

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

Committee's Minute FRI. 16 JAN 1935  
 Assigned See Rot. 7.E 19959

J. J. Ochoa  
 Registrar to Lloyd's Register of Shipping.