

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 30951^e

Received at London Office

30 DEC 1940

Date of writing Report 29/11 1940 When handed in at Local Office _____ 19____ Port of Rotterdam

No. in Survey held at Heurden Date, First Survey 26/11 Last Survey 19/11 1940
Reg. Book. _____ Number of Visits 3

on the ^{Single} ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Screw vessel M.V. "ELISA" Tons { Gross 487.96
Net 257.77

Built at Heurden By whom built Messrs. De Haan & Oudemans Yard No. 250 When built 1940

Owners N.V. "Maatschappij Elisa" Port belonging to Rotterdam

Oil Engines made at Gent By whom made "Anglo-Belgian Co" Contract No. _____ When made _____

Generators made at Odense By whom made Thomas B Thirge Contract No. 237561 When made _____

No. of Sets one Engine Brake Horse Power 22 Nom. Horse Power as per Rule _____ Total Capacity of Generators 0 Kilowatts.

OIL ENGINES, &c.—Type of Engines "Heavy oil engine" 2 or 4 stroke cycle 4 Single or double acting single

Maximum pressure in cylinders 53/10² lb/in² Diameter of cylinders 11 7/8" Length of stroke 14 1/2" No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 33 1/2" Is there a bearing between each crank no

Revolutions per minute 1000 Flywheel dia. 62 1/2" Weight 120 lb Means of ignition compression Kind of fuel used distillate

Crank Shaft, dia. of journals 80" Crank pin dia. 7 3/4" Crank Webs shrunk
Mid. length breadth 1 1/4" Thickness parallel to axis _____
Mid. length thickness 5 1/2" Thickness round eye-hole _____

Flywheel Shaft, diameter _____ Intermediate Shafts, diameter _____ Thickness of cylinder liners 5"

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 no Are the exhaust pipes and silencers water cooled or lagged with non-conducting material yes

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

Lubricating Oil Pumps, No. and size one

Air Compressors, No. one No. of stages 2 Diameters 3 3/4" x 1 5/8" Stroke 3 1/4" Driven by engine itself

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

AIR RECEIVERS:—Have they been made under Survey _____ State No. of Report or Certificate _____

Is each receiver, which can be isolated, fitted with a safety valve as per Rule _____

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

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 by Rules _____

Starting Air Receivers, No. _____ 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 C.F. 15 dipping

Pressure of supply 220 volts. Full Load Current 25 Amperes. Direct or Alternating Current Direct Current

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 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 or 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 _____

PLANS.—Are approved plans forwarded herewith for Shafting 12-1-40 Receivers _____ Separate Tanks _____
(If not, state date of approval)

SPARE GEAR As per Rules

The foregoing is a correct description,

Manufacturer.



© 2021

Lloyd's Register Foundation

1940

Dates of Survey while building
 During progress of work in shops - - 2 26/11, 11/5
 During erection on board vessel - - 1 19/11
 Total No. of visits 2

Dates of Examination of principal parts—Cylinders 26/11 Covers 26/11 Pistons 26/11 Piston rods ✓
 Connecting rods 26/11 Crank and Flywheel shafts 26/11, 11/5 Intermediate shafts ✓

Crank shaft
 Material S.M. steel Tensile strength Brinell 63 kg/mm²
 Elongation ✓ Identification Marks ✓

Flywheel shaft, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case *no* Identification Marks ✓

Identification marks on Air Receivers ✓

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.)
This engine is opened up and all the working parts examined and found in good condition, cooling spaces tested and found tight. Brinell tests taken of the crankshaft result 63 kg/mm² after satisfactorily fitted on board the engine tested under full working condition and found in good working order.

Im. 11.42-T (MADE AND PRINTED IN ENGLAND). (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ *f: 60.-* When applied for 24/12 19 48
 Travelling Expenses (if any) £ *f: 14.-* When received 19

Committee's Minute **FRI 28 JAN 1949**
 Assigned *In units see J.S. Rpt-*

