

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 30951^e

Received at London Office

Date of writing Report 29/11 1940 When handed in at Local Office 19 Port of Rossum
 No. in Survey held at Heurden Date, First Survey 26/1 Last Survey 19/11 1940
 Reg. Book. Heurden Number of Visits 3
 on the Single Screw vessel M.V. "ELISA" Tons { Gross 487.96
Triple { Net 257.77
Quadruple
 Built at Heurden By whom built Muns, De Haan & Oulemans Yard No. 250 When built 1940
 Owners N.V. "Motorship Elisa" Port belonging to Rossum
 Oil Engines made at Gent By whom made Anglo Belgian Co Contract No. 1 When made 1
 Generators made at Odense By whom made Thomas & Thirge Contract No. 237561 When made 1
 No. of Sets one Engine Brake Horse Power 2.2 Nom. Horse Power as per Rule 1 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 53/100 Diameter of cylinders 117.5 Length of stroke 149.2 No. of cylinders 2 No. of cranks 2
 Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 330 Is there a bearing between each crank no
 M.I.P. app. = 6.13 KPa/cm²
 Revolutions per minute 1000 Flywheel dia. 620 Weight 12015 Means of ignition compression Kind of fuel used diesel
 Crank Shaft, dia. of journals 80 Crank pin dia. 73 Crank Webs 14 Mid. length breadth 14 Thickness parallel to axis shrunk
 as fitted 80 as fitted 73 Mid. length thickness 14 Thickness round eye-hole 1
 Flywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 5
 as fitted as fitted
 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. 1 Diameter 1 Stroke 1 Driven by 2

AIR RECEIVERS:—Have they been made under Survey 1 State No. of Report or Certificate 1
 Is each receiver, which can be isolated, fitted with a safety valve as per Rule 1
 Can the internal surfaces of the receivers be examined 1 What means are provided for cleaning their inner surfaces 1
 Is there a drain arrangement fitted at the lowest part of each receiver 1

High Pressure Air Receivers, No. 1 Cubic capacity of each 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
 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 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 1 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 1
 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 1

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

The foregoing is a correct description,

Manufacturer.



© 2021

Lloyd's Register
Foundation

009848-009859-0143

1940

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

Dates of Examination of principal parts—Cylinders 26/1 Covers 26/1 Pistons 26/1 Piston rods ✓
Connecting rods 26/1 Crank and Flywheel shafts 26/1, 11/5 Intermediate shafts ✓
Crank shaft { Material S.M. steel Tensile strength Brinell 63.129 kg/cm^2
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 63.129 kg/cm^2 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 ... £

Travelling Expenses (if any) £

When applied for

When received

Committee's Minute

Assigned

FRI 28 JAN 1949

In unit see J.S. Rpt-



Surveyor to Lloyd's Register of Shipping.

Lloyd's Register
Foundation