

L.C.

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 9337.

Writing Report 6th August 1938. When handed in at Local Office 30.8.38 Port of MANCHESTER
 Survey held at STOCKPORT Date, First Survey MARCH 18th 1938. Last Survey 3. August 1938.
 Number of Visits 5

on the ^{Single} ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Motor Screw vessel "SOBIESKI"
 Tons { Gross 11030
 Net 6351

at Newcastle (and) By whom built SNAN, HUNTER & NIGHAM RICHARDSON Yard No. 1572. When built 1938.
 Port belonging to GDYNIA.

Engines made at STOCKPORT By whom made CROSSLEY BROS. LD. ENGINE Contract No. 124183. When made 1938
 Generators made at GATESHEAD-ON-TYNE. By whom made CLARKE, CHAPMAN & CO. LD. GENERATOR Contract No. 10917. When made 1938
 of Sets ONE. Engine Brake Horse Power 70. Nom. Horse Power as per Rule 20. Total Capacity of Generators 46. Kilowatts.

ENGINES, &c.—Type of Engines VERTICAL SOLID INJECTION 2 or 4 stroke cycle 4 Single or double acting SINGLE
 Mean pressure in cylinders 750. LBS Diameter of cylinders 5" Length of stroke 6 1/4" No. of cylinders 5 No. of cranks 5
 Bearings, adjacent to the Crank, measured from inner edge to inner edge 6 3/8" & 12 5/8" Is there a bearing between each crank —
 Turns per minute 1000. Flywheel dia. 24" Weight 460. LBS. Means of ignition COMPRESSION Kind of fuel used HEAVY OIL.
 Shaft, dia. of journals as per Rule AS APPROVED. 3 1/2" Crank pin dia. 3 1/4" Crank Webs Mid. length breadth 5" Thickness parallel to axis SOLID.
 as fitted 3 1/2" Mid. length thickness 1 7/8" shrunk Thickness around eye-hole —
 Steel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 9/32"

Governor or other arrangement fitted to prevent racing of the engine when declutched YES Means of lubrication FORCED.
 Are cylinders fitted with safety valves NO. Are the exhaust pipes and silencers water cooled or lagged with non-conducting material —
 Working Water Pumps, No. ONE Is the sea suction provided with an efficient strainer which can be cleared within the vessel —
 Lube Oil Pumps, No. and size ONE. 1 1/8" DIA > 1 3/32" STROKE.
 Compressors, No. ONE. No. of stages TWO. Diameters 2 1/8" & 2 3/8" Stroke 1" Driven by ENGINE.
 Suctioning Air Pumps, No. — Diameter — Stroke — Driven by —

RECEIVERS:—Have they been made under Survey YES State No. of Report or Certificate
 Each receiver, which can be isolated, fitted with a safety valve as per Rule YES
 Are internal surfaces of the receivers be examined What means are provided for cleaning their inner surfaces
 Are there a drain arrangement fitted at the lowest part of each receiver YES
 Pressure Air Receivers, No. — Cubic capacity of each — Internal diameter — thickness —
 Joints, lap welded or riveted longitudinal joint — Material — Range of tensile strength — Working pressure by Rules —
 Suctioning Air Receivers, No. ONE. Total cubic capacity 0.50 CUB. FT. Internal diameter 5 1/8" thickness 3/16"
 Joints, lap welded or riveted longitudinal joint SEAMLESS. Material STEEL. Range of tensile strength — Working pressure by Rules APPROVED

ELECTRIC GENERATORS:—Type —
 Voltage of supply 220. volts. Full Load Current 209. Amperes. Direct or Alternating Current DIRECT
 Alternating current system, state the periodicity — Has the Automatic Governor been tested and found efficient when the whole 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
 field 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 YES Are the lubricating arrangements of the generators as per Rule YES
 Are generators under 100 kw. full load rating, have the Makers supplied certificates of test YES and do the results comply with the requirements YES
 Are generators 100 kw. or over have they been built and tested under survey —
 V.S. Are approved plans forwarded herewith for Shafting YES Receivers YES Separate Tanks YES
 (If not, state date of approval)
 RED GEAR AS PER RULE REQUIREMENTS.

The Emergency Oil Engine Dynamo Lighting Set has been fitted
 on 'D' Deck abaft the Eng. Room on the M.V. SOBIESKI, Yard No 1572. (SHAW & CO.)
 tried under working conditions and found satisfactory

Awatt
 Newcastle on Tyne
 25/5/39.

The foregoing is a correct description,

CROSSLEY BROTHERS LTD.,

Fred Maynard.

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - } MAR 18. 28. JUNE 29. JULY 15. AUG 3
{ During erection on board vessel - - - }
{ Total No. of visits } 5.

Dates of Examination of principal parts—Cylinders 29-6-38. Covers 29-6-38. Pistons 29-6-38. Piston rods —
Connecting rods 18-3-38. Crank and Flywheel shafts 18-3-38. Intermediate shafts —
Crank and Flywheel shafts, Material STEEL Identification Marks LLOYDS G.R.C. 953. 18-3-38.
Intermediate shafts, Material — Identification Marks —
Identification marks on Air Receivers LLOYDS TEST
14-6-38.
H.P. 600 lbs. R.W.L.

Is this machinery duplicate of a previous case — If so, state name of vessel —

General Remarks (State quality of workmanship, opinions as to class, &c.)

THIS ENGINE HAS BEEN CONSTRUCTED UNDER SPECIAL SURVEY OF TESTED MATERIAL AND IS IN ACCORDANCE WITH THE SECRETARY'S LETTERS, APPROVED PLANS AND RULE REQUIREMENTS. THE MATERIALS AND WORKMANSHIP ARE OF A GOOD QUALITY. THE SET WHEN TESTED IN SHOP UNDER FULL LOAD CONDITIONS SHOWN GOOD RESULTS. IN OUR OPINION THE SET IS SUITABLE TO BE PLACED ON BOARD A VESSEL, CLASSED WITH THIS SOCIETY, FOR THE PURPOSE INTENDED. GENERATOR CERTIFICATE ATTACHED.

The amount of Fee ... £ 5 : 5 : 0 When applied for, 4-8-1938, M.
Travelling Expenses (if any) £ 10 : 0 When received, 5-10-1938, M.

Committee's Minute
Assigned

WED 31 MAY 1939

See NWC. 38-97503

J. Meier + J. M. A. Black
Surveyors to Lloyd's Register of Shipping.
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