

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 33445

Received at London Office 12 MAY 1951

Date of writing Report 3/4 1951 When handed in at Local Office _____ 19____ Port of Rotterdam

No. in Survey held at Heurden Date, First Survey 30/1/51 Last Survey 29/3 1951
Reg. Book. _____ Number of Visits 3

91197 on the Single Screw vessel. M.V. LEENDERT B Tons } Gross 499.87
 Triple } Net 270.91
 Quadruple }

Built at Heurden By whom built van der Haan & Palsma Yard No. 259 When built 1951

Owners Geb. Brou NV Port belonging to Rotterdam

Oil Engines made at Duisley By whom made R.A. Lister Ltd Contract No. 579437 When made _____

Generators made at _____ By whom made _____ Contract No. _____ When made _____

No. of Sets one Engine Brake Horse Power 12 M.N. as per Rule Total Capacity of Generators Kilowatts.

Set intended for essential services driving windlass and cofferson bilge pump.

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

Maximum pressure in cylinders _____ Diameter of cylinders 4 1/2" Length of stroke 5 1/2" No. of cylinders 2 No. of cranks 2

Mean indicated pressure Firing order in cylinders _____ Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 134%

Is there a bearing between each crank Yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) _____ Revolutions per minute 600

Flywheel dia. 600mm Weight _____ Means of ignition Compression Kind of fuel used burnt oil

Crank Shaft, dia. of journals _____ as per Rule Crank pin dia. 2 1/2" Crank Webs _____ Mid. length breadth 3" Thickness parallel to axis _____
as fitted 2" Mid. length thickness 1 1/2" shrunk Thickness round eye-hole _____

Flywheel Shaft, diameter _____ as per Rule Intermediate Shafts, diameter _____ as per Rule General armature, moment of inertia (16 m² or Kg.-cm.²) _____

Are means provided to prevent racing of the engine when declutched Yes Means of lubrication grease Kind of damper if fitted _____

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. _____ Is the sea suction provided with an efficient strainer which can be cleared within the vessel

Lubricating Oil Pumps, No. and size one rotary

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

Saving 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 _____

Pressure of supply _____ volts. Full Load Current _____ Amperes. Direct or Alternating 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 Generators, are they compounded as per Rule is an adjustable regulating resistance fitted in series with each shunt field _____

Are all terminals accessible, clearly marked, and furnished with sockets Are they so spaced _____

Are they shielded that they cannot be accidentally earthed, short circuited, or touched Are the lubricating arrangements of the generators as per Rule

If the generators are under 100 kw. full load rating, have the makers supplied certificates of test and do the results comply with the requirements _____

If the generators are 100 kw. or over have they been built and tested under survey

Details of driven machinery other than generator _____

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

Have Torsional Vibration characteristics if applicable been approved _____ Armature shaft Drawing No. _____
(state date of approval)

SHAFTING As per Rules

The foregoing is a correct description,

Manufacturer.



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Dates of Survey while building { During progress of work in shops - - }
 { During erection on board vessel - - } 3/1 '51 13/2 '51 29/3 '51
 Total No. of visits 2

Dates of Examination of principal parts—Cylinders 3/1 '51 Covers 3/1 '51 Pistons 3/1 '51 Piston rods

Connecting rods 3/1 '51 Crank and Flywheel shafts 3/1 '51 Intermediate shafts

Crank shaft { Material 4 M steel Tensile strength 70 kg/cm²
 { Elongation Identification Marks

Flywheel shaft, Material Identification Marks

Identification marks on Air Receivers

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 opened up all working parts examined throughout and found in good condition. Tensile tests taken of the crankshaft result 70 kg/cm². The engine is placed on the forepeak flat and is driving the windlass and a 35 tons relay bilge pump connected to the pump room and cofferdams. The engine has been run under full working condition and was found in good working order and merits in my opinion the Committee's approval.

The amount of Fee ... £ f 60. - : When applied for 30/4 19.57
 Travelling Expenses (if any) £ - : When received 19

Committee's Minute TOES 17 JUL 1951
 Assigned See F.E. Mackay rpt.

Surveyor to Lloyd's Register of Shipping.
 Lloyd's Register Foundation

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