

pt. 4c.

PUMPING & COMPRESSOR
REPORT ON OIL ENGINE ~~ELECTRIC~~ GENERATOR SETS.

No. 125707

Date of writing Report 3/10/52 19 When handed in at Local Office 10/11/52 19 Port of Special

No. in Survey held at Colchester Date, First Survey 30/5/52 Last Survey 3/10/52 19
g. Book.

Single on the Twin Triple Quadruple Screw vessel Union Light Tug Co @ N. P. 8074
It at 27/4/51. Tons Gross Net

By whom built Yard No. When built

Engines made at Colchester By whom made Davey Paxman & Co. San/N: 11/517824
Centrifugal Pump. Hammerley Engine No. 344670 When made 10/52.

Impressors. 1 Hammerley By whom made Hammerley & Co Ltd. Pump N: 88762 When made 6/52
of Sets. 1 B.H.P. of each Set 10. M.N. as per Rule. Capacity of each Generator 89140. Kilowatts.

Set intended for essential services.

L ENGINES, &c.—Type of Engines Heavy Oil Type 2VTHZ. 2 or 4 stroke cycle 4 Single or double acting Single

Maximum pressure in cylinders 850/lb Diameter of cylinders 4" Length of stroke 4" No. of cylinders 2 No. of cranks 2

Indicated pressure 98.5/lb. Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 4 7/8"

Where a bearing between each crank Yes. Moment of inertia of flywheel (16 m² or Kg.-cm.²) 353 lb ft² Revolutions per minute 1000

Wheel dia. 19 1/2" Weight 213 lb. Means of ignition Compression Kind of fuel used Diesel

Crank Shaft, Solid forged dia. of journals as per Rule. 2 1/8" Crank pin dia. 2 1/2" Crank Webs Mid. length breadth 3 3/8" Thickness parallel to axis

Wheel Shaft, dia. of journals as fitted. 2 1/8" Crank pin dia. 2 1/2" Crank Webs Mid. length thickness 1 1/4" shrunk Thickness round eye hole

Generator armature, moment of inertia (16 m² or Kg.-cm.²)

Means provided to prevent racing of the engine Yes. Means of lubrication Grease Kind of damper if fitted None

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

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

Operating Oil Pumps, No. and size One @ 150 G.P.H. Engine driven.

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

Receiving Air Pumps or Blowers, No. How driven

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

Full details of safety devices

Are the internal surfaces of the receivers be examined and cleaned.

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

Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

Less, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure

Receiving Air Receivers, No. Total cubic capacity Internal diameter thickness

Less, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure

ELECTRIC GENERATORS:—Type

Voltage of supply volts. Full Load Current Amperes. Direct or Alternating Current

Alternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

off Yes. 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 so spaced that they cannot be accidentally earthed, short circuited, or touched. 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 and do the results comply with the requirements.

Are generators 100 kw. or over have they been built and tested under survey

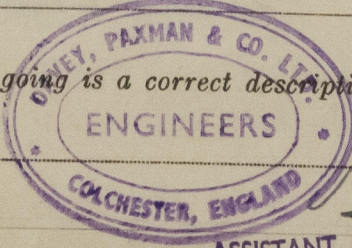
Is of driven machinery of Centrifugal Pump N: 88762 Compressor N: 89140

VS.—Are approved plans forwarded herewith for Shafting Standard approved Receivers Separate Tanks

Torsional Vibration characteristics if applicable been approved Not applicable Armature shaft Drawing No.

Is a spare gear required by the Rules been supplied Yes.

The foregoing is a correct description,



Manufacturer. Assistant Commercial Manager



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012003-012010-0136

Dates of Survey while building { During progress of work in shops - - 30/5/52. 2/7/52. 3/10/52.
During erection on board vessel - - - 3 (in shops)
Total No. of visits 3 (in shops)

Dates of Examination of principal parts - Cylinders 2/7/52. Covers 30/5/52. Pistons 2/7/52. Piston rods
Connecting rods 2/7/52. Crank and Flywheel shafts 1/5/52. Intermediate shafts -

Crank shaft { Material Steel. Tensile strength 40/45 tons
Elongation Identification Marks LR 4218. EB. 1/5/52.

Flywheel shaft, Material Identification Marks

Identification marks on Air Receivers

Is this machinery duplicate of a previous case Standard type so, state name of vessel

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.)

This diesel engine has been built under Survey in accordance with plans approved and the requirements of the rules. Steel used in the manufacture has been made at works approved by the Committee and under the supervision of the Society's Surveyors. The workmanship is poor, and on completion the engine was tested on the brake to full load & 10% overload conditions when power was operated and found in order. The engine mounted on bedplate complete with Air Compressor & Centrifugal Pump was also shop tested, with the pump running light and air compressor under full load conditions with satisfactory results, and in the opinion of the undersigned is eligible for inclusion in +LMC when satisfactorily installed on board.

Hammorsley Eng Co Centrifugal Pump N° 88762 Type D3 Stamped Lloyds Test 26/6/52 RNS.
" " Compressor N° 89140 Stamped Lloyds Test 22/5/52 RNS.

26.2.53

3m. 6.1. - 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 ... £ 5 : 0 : 0
Travelling Expenses (if any) £ : 13 : 6

When applied for 15/11/1952
When received 19

Committee's Minute

Assigned

See F.E. mch. rpt.

TUES. 3 MAR 1953

Surveyor to Lloyd's Register of Shipping.



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