

DEIVED

9 MAR 1947

No. in Survey held at

eg. Book.

on the Twin

at

mers

Engines made at

generators made at

of Sets

L. ENGINES, &c.—Type of Engines

imum pressure in cylinders

n of bearings, adjacent to the Crank, measured from inner edge to inner edge

utions per minute

k Shaft, dia. of journals

as per Rule

as fitted

as per Rule

as fitted

vernor or other arrangement fitted to prevent racing of the engine when declutched

e cylinders fitted with safety valves

g Water Pumps, No.

ating Oil Pumps, No. and size

mpressors, No.

ging Air Pumps, No.

RECEIVERS:—Have they been made under Survey

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

internal surfaces of the receivers be examined

a drain arrangement fitted at the lowest part of each receiver

essure Air Receivers, No.

lap welded or riveted longitudinal joint

Air Receivers, No.

lap welded or riveted longitudinal joint

RIC GENERATORS:—Type

of supply

ing current system, state the periodicity

Generators, are they compounded as per Rule

rminals accessible, clearly marked, and furnished with sockets

d that they cannot be accidentally earthed, short circuited, or touched

erators are under 100 kw. full load rating, have the makers supplied certificates of test

erators are 100 kw. or over have they been built and tested under survey

—Are approved plans forwarded herewith for Shafting

GEAR

1 Spare armature

1 Spare field coil

1 Set of bearings

1 Line of brush holders

1 Spare brushes

1 Spare field coil

1 Set of bearings

1 Line of brush holders

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1 Set of bearings

1 Line of brush holders

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 114851

Received at London Office

12 MAR 1947

12 MAR 1947

Port of LONDON

When handed in at Local Office

Date, First Survey 22. 10. 46

Last Survey 12. 11. 1946

Number of Visits Two

Tons Gross Net

Screw vessel T.M. V. "Axel Johnson"

By whom built A.B. Gotaverken

Yard No. 391. When built 1925

Port belonging to

ENGINE No. 46748

Contract No. 12052 When made 1946

By whom made Blackstone & Co Ltd

By whom made Mawdsley Ltd

Contract No. 43795 When made 1946

Engines made at Stamford Lines

Engines made at Dursley Glos.

Engine Brake Horse Power 180 Nom. Horse Power as per Rule 45

Total Capacity of Generators 110 Kilowatts

Vertical totally enclosed EPMA5 2 or 4 stroke cycle 4

Single or double acting Single

Diameter of cylinders 8 3/4"

Length of stroke 11 1/2"

No. of cylinders 5

No. of cranks 5

10"

Is there a bearing between each crank Yes

600

Flywheel dia. 40"

Weight 18 cwt

Means of ignition Compression

Kind of fuel used Fuel Diesel

as per Rule As approved

as fitted 5 3/4"

Crank pin dia. 5 3/4"

Crank Webs

Mid. length breadth 8"

Thickness parallel to axis

Mid. length thickness 2 7/8"

Thickness round eyehole

as per Rule As approved

as fitted 5 3/4"

Intermediate Shafts, diameter

as per Rule

Thickness of cylinder liners 19/32"

as fitted

Means of lubrication Forced Dry sump

Yes

Are the exhaust pipes and silencers water cooled or lagged with non-conducting material

Yes

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

2

one pressure and one scavange

No. of stages

Diameters

Stroke

Driven by

Diameter

Stroke

Driven by

State No. of Report or Certificate

What means are provided for cleaning their inner surfaces

Range of tensile strength

Working pressure by Rules

Internal diameter

thickness

Range of tensile strength

Working pressure by Rules

Internal diameter

thickness

Range of tensile strength

Working pressure by Rules

Internal diameter

thickness

Range of tensile strength

Working pressure by Rules

Internal diameter

thickness

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Working pressure by Rules

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Internal diameter

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Working pressure by Rules

Internal diameter

thickness

Range of tensile strength

Working pressure by Rules

Internal diameter

thickness

Range of tensile strength

Working pressure by Rules

Internal diameter

The foregoing is a correct description,

FOR BLACKSTONE & CO. LTD. Manufacturer.



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Lloyd's Register Foundation

003162-003174-0031

12 MAR 1947

Dates of Survey while building { During progress of work in shops - - 22. 10. 46. / 2. 11. 46.
During erection on board vessel - -)
Total No. of visits... Two (in shops)

Dates of Examination of principal parts—Cylinders 22. 10. 46. Covers 22. 10. 46. Pistons 22. 10. 46. Piston rods. ✓
Connecting rods 22. 10. 46. Crank and Flywheel shafts 22. 10. 46. Intermediate shafts
Crank shaft { Material B. S. S. 5055/204 Tensile strength 40/50 Tons sq. in.
Elongation 20% Identification Marks L. R. 226 B.H. 9. 10. 46.
Flywheel shaft, Material as above. Identification Marks
Is this machinery duplicate of a previous case 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 is of Trues Blackstone's Co's standard design & has been built & tested under Survey. The steel used has been made at works approved by the Committee. The workmanship is good & on completion the complete set was despatched to Stockholm for fitting on board the vessel. When satisfactorily installed & tested will be eligible for the Record of L.M.C. (with date) The torsional vibration characteristics of this engine have been approved — Letter of 10. 1. 47. for a service speed of 7600 RPM

10, 11, 12—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 ... £ 6 : 15 : 0 When applied for 12 MAR 1947
Travelling Expenses (if any) £ 1 : 0 : 0 When received 19

Committee's Minute
Assigned See Lot 15322

