

## REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS

No. 99983

20 APR 1934

Received at London Office

Date of writing Report 16-4-34 When handed in at Local Office 20 APR 1934 Port of London

No. in Survey held at  
Reg. Book.

Colchester

Date, First Survey

27-11-33

Last Survey

13-4-1934

Number of Visits 18

Single  
on the Twin  
Triple  
Quadruple

Screw vessel

Simons & Co's Draeger h<sup>o</sup> 704Tons { Gross  
Net

Built at

Glasgow

By whom built

Messrs Simons &amp; Co.

Yard No. 704. When built

Owners

Burma Oil Co. Ltd.

Port belonging to

Oil Engines made at

Colchester

By whom made

Davy Paxman &amp; Co (Colchester) Ltd.

Contract No. 18175

When made 1934

Generators made at

Chilmsford

By whom made

Crompton Parkinson

Contract No.

When made

No. of Sets one

Engine Brake Horse Power

500

Nom. Horse Power as per Rule

143

Total Capacity of Generators

Kilowatts.

## OIL ENGINES, &amp;c.—Type of Engines

Heavy Oil Engines

2 or 4 stroke cycle

4 Single or double acting Single

Maximum pressure in cylinders

640

Diameter of cylinders

13"

Length of stroke

14 1/2"

No. of cylinders

5

No. of cranks

5

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

13 3/4"

Is there a bearing between each crank

Yes

Revolutions per minute

500

Flywheel dia.

4'-5"

Weight

3328 lb.

Means of ignition

Compression

Kind of fuel used

Diesel

Crank Shaft, dia. of journals

as per Rule 8 3/8" approved.

as fitted 8 3/8"

Crank pin dia.

8 3/8"

Crank Webs

Mid. length breadth

11 1/4"

Thickness parallel to axis

Yes

Mid. length thickness

4 1/2"

Thickness around eyehole

Yes

Flywheel Shaft, diameter

as per Rule 8 3/8" as app. 8 3/8"

as fitted 8 3/8"

Intermediate Shafts, diameter

as per Rule

Thickness of cylinder liners

1 1/8"

Is a governor or other arrangement fitted to prevent racing of the engine when detached

Yes

Means of lubrication

Forced.

Are the cylinders fitted with safety valves

Yes

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

Water cooled.

Cooling Water Pumps, No.

One

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

Lubricating Oil Pumps, No. and size

Two

Gear wheel 1 1/2" delivery.

Air Compressors, No.

Yes

No. of stages

Diameters

Stroke

Driven by

Scavenging Air Pumps, No.

Yes

Diameter

Stroke

Driven by

## AIR RECEIVERS:—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. Load

Amperes.

Direct or Alternating Current

If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off

Generators, do they comply with the requirements regarding rating

are they compound wound

are they over compounded 5 per cent.

, if not compound wound state distance between each generator

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

Are the lubricating arrangements of the generators as per Rule

LANS. Are approved plans forwarded herewith for Shafting

(If not, state date of approval)

Receivers

Separate Tanks

PARE GEAR

On cylinder head complete with valves, seats & springs. Complete set of valves & springs for one cylinder. 4 fuel injection nozzles. One piston complete with rings & gudgeon pin. One set of chains for crank shaft drive. 2 bottom end bolts & nuts. 2 main bearing studs & nuts. 1 set of studs & nuts for one cylinder. One fuel pump. One lubricating oil pump. One set of brasses for main, bottom end & top end. 15 Piston rings.

The foregoing is a correct description,

*M. J. Davies*  
*John Smith*



Manufacturer.



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W6-0147



Dates of Survey while building { During progress of work in shops - - 27-11-33, 29-11-33, 12-12-33, 14-12-33, 22-12-33. Jan. 1934. 1-15. 23. 29.  
 { During erection on board vessel - - Feb. 7-12-16-23 - March. 2-16-20, April. 4-12-13. 18.  
 Total No. of visits

Dates of Examination of principal parts—Cylinders 16-2-34. Covers 23-2-34. Pistons 24-1-34. Piston rods ✓

Connecting rods 23-1-34. Crank and Flywheel shaft 30-12-33. Intermediate shaft ✓

Crank and Flywheel shaft, Material *Steel*. Identification Mark *LLOYDS. 1423. 30-12-33. H.Y.B.* Intermediate shafts, Material ✓ Identification Marks ✓

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.)

The engine has been constructed under Special Survey in accordance with the approved plans & Rules. The materials & workmanship are sound & of good description. The engine has been tried at the works of the Engine Makers under full load conditions with satisfactory results.

The engine has been shipped to Burma where it is to be fitted on board the Dredger (Simon & Co's No 704).

The amount of Fee ... £ 14 : 6 : When applied for, 20 APR 1934

Travelling Expenses (if any) £ 3 : 3/6 : When received, 26/5/34 *Wm*

*Myrill*  
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI. 12 OCT 1934

*See Rgn. Rpt - 873*

FRI. 19 OCT 1934



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