

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 Colchester Date, First Survey 27-11-33 Last Survey 13-4-1934 Reg. Book. Number of Visits 18

on the ^{Single} ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Screw vessel *Simons & Co's Dragger h^o 704* Tons { Gross Net

Built at *Glasgow* By whom built *Messrs Simons & Co.* Yard No. *704*. When built

Owners *Burma Oil Co. Ltd.* Port belonging to

Oil Engines made at *Colchester* By whom made *Danny Papman & 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, &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 Mid. length thickness *4 1/2"* ~~shrunk~~ Thickness around eyehole

Flywheel Shaft, diameter ^{as per Rule *as app. 8 3/8"*} ~~as fitted *8 3/8"*~~ Intermediate Shafts, diameter ^{as per Rule} ~~as fitted~~ Thickness of cylinder liners *1/8"*

Is a governor or other arrangement fitted to prevent racing of the engine when decoupled *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. No. of stages Diameters Stroke Driven by

Scavenging Air Pumps, No. 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 *Alternating*

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 Receivers Separate Tanks

PAPE GEAR *One 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. Andrews
John Smith



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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 29-1-34 Piston rods ✓

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

Crank and Flywheel shaft, Material *Stil.* Identification Mark ^{LLOYDS.} 1423-30-1-33 Intermediate shafts, Material ✓ Identification Marks ✓
 H.Y.B.

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 N° 704).

Myrall
 Surveyor to Lloyd's Register of Shipping.

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

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

FRI. 19 OCT 1934

Committee's Minute FRI. 12 OCT 1934

Assigned *See Rgn. Rpt-873*



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1 in 7.58—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)