

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 13325

Received at London Office

28 NOV 1934

Date of writing Report *24th Nov 1934* When handed in at Local Office

Port of *Amsterdam.*

No. in Survey held at *Amsterdam*

Date, First Survey *13th May*

Last Survey *20th Nov 1934*

Reg. Book.

Number of Visits *17*

Single
on the Twin
Triple
Quadruple
Screw vessel

Tons { Gross
Net

Built at *Odense* By whom built *Hughes Odense Staalskibsværft* No. *54* When built

Owners *Anglo Saxon Petroleum Co.* Port belonging to

Oil Engines made at *Amsterdam* By whom made *Messrs Kromhout Lang* No. *7165* When made *34*

Generators made at *Sunderland* By whom made *Sunderland Forge* Contract No. When made

No. of Sets *1* Engine Brake Horse Power *30* Nom. Horse Power as per Rule *13* Total Capacity of Generators *16* Kilowatts.

OIL ENGINES, &c.—Type of Engines *Kromhout Diesel Engine H.S. 2 2 or 4 stroke cycle 2* Single or double acting *Single*

Maximum pressure in cylinders *35 kg/cm²* Diameter of cylinders *210 mm* Length of stroke *275 mm* No. of cylinders *1* No. of cranks *1*

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge *328 mm* Is there a bearing between each crank *✓*

Revolutions per minute *390* Flywheel dia. *1100 mm* Weight *1340 k.g.* Means of ignition *Compression* Kind of fuel used *Diesel Oil*

Crank Shaft, dia. of journals *as per Rule 140 mm* Crank pin dia. *110 mm* Crank Webs *Mid. length breadth 150 mm* Thickness parallel to axis *shrunk*

Flywheel Shaft, diameter *as per Rule 140 mm* Intermediate Shafts, diameter *as per Rule 140 mm* Thickness of cylinder liners *No liner fitted*

Is a governor or other arrangement fitted to prevent racing of the engine when declutched *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 *✓*

Cooling Water Pumps, No. *1 a 3 ton per hour* Is the sea suction provided with an efficient strainer which can be cleared within the vessel *✓*

Lubricating Oil Pumps, No. and size *gear wheel pump capacity 6 liters per min.*

Air Compressors, No. *✓* No. of stages *✓* Diameters *✓* Stroke *✓* Driven by *✓*

Scavenging Air Pumps, No. *crankcase scavenging* 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. *1* Total cubic capacity *75 liter* Internal diameter *250 mm* thickness *4 mm*

Seamless, lap welded or riveted longitudinal joint *Seamless* Material *St. Steel* Range of tensile strength *44/50 k.g.* Working pressure by Rules *25 k.g.*

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*

PLANS. Are approved plans forwarded herewith for Shafting *11/4/34* Receivers *11/4/34* Separate Tanks *✓*

(If not, state date of approval)

SPARE GEAR

- 1 Delivery pipe for fuel pump; 1 Impellor for cooling water pump.
- 2 fuel Sprayers; 1 Valve for Starting air valve; 1 Spring for governor.
- 1 Set of piston rings; 1 Set of bolts for bottom end brases
- 1 Set of Studs and nuts for main bearing brases.
- 1 Set of Studs and nuts for attaching Combustion Chamber on Cylinder.
- 2 leather valves for Air Valves crankcase.
- 4 Springs for Air Seal ring; 1 Bush and plunger for fuel pump.

The foregoing is a correct description,

N.V. KROMHOUT MOTOREN FABRIEK

D. Goedkoop Jr.

Manufacturer.



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003659-003670-0145

Dates of Survey while building { During progress of work in shops - May 13; June 2-17; Aug 9; Sept: 3-10-12; Oct 3-4-9-12-13
During erection on board vessel - - - 15-16-17; Nov: 19-20
Total No. of visits 17.

Dates of Examination of principal parts—Cylinders 3/9/34 Covers 12/9/34 Pistons 12/9/34 Piston rods c

Connecting rods 3/9/34 Crank and Flywheel shaft 17/6/34 - 3/9/34 Intermediate shaft 25/5/34

Crank and Flywheel shafts, Material S. M. Steel Identification Mark LLOYDS
C.H. L.P. 1893
H-K 3-9-34

Intermediate shafts, Material S. M. Steel Identification Marks LLOYDS
NO 259
H-K 25-5-34

Is this machinery duplicate of a previous case Yes If so, state name of vessel Eng No 7161 & 7203

General Remarks (State quality of workmanship, opinions as to class, &c.) This Engine has been constructed under Special Survey in accordance with the requirements of the Rules; the Secretary's letters and the approved plans. Engine tried under full loaded condition on test bed and found satisfactory.

The amount of Fee ... £ 130.00 When applied for, 19...
Travelling Expenses (if any) £ 6.00 When received, 25.1.35

Committee's Minute

FRI. 5 APR 1935

Assigned

See J. E. Machy

Mr. T. W. T. T.
Surveyor to Lloyd's Register of Shipping.



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