

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 21573

Received at London Office

4 NOV 1932

Date of writing Report 29 Oct 1932 When handed in at Local Office 19 Port of Rotterdam

No. in Survey held at Rotterdam Date, First Survey 3 Sept 1931 Last Survey 26/10 1932

Rej. Book. Single on the Deck Triple Screw vessel "TARANA" (TRAWLER) Tons Gross 225.26 Net 135.42

Built at Rotterdam By whom built Hoekfab-Scheepswerk van P. Smit jr N.V. Yard No. 487 When built 1932

Owners Hoek-Scheepswerk van P. Smit jr N.V. Port belonging to Rotterdam

Oil Engines made at Rotterdam By whom made ditto Contract No. 490 When made 1932

Generators made at Slufterver By whom made Elektro Technische Industrie v.h. Muller & Smit jr Contract No. When made 1932

No. of Sets 1 Engine Brake Horse Power 105 Nom. Horse Power as per Rule 23 Total Capacity of Generators 70 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 500 lbs Diameter of cylinders 310 mm Length of stroke 350 mm No. of cylinders 2 No. of cranks 2

Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 364 mm Is there a bearing between each crank Yes

Revolutions per minute 400 Flywheel dia. 1240 mm Weight 2650 kg Kind of fuel used Solar oil

Crank Shaft, dia. of journals as per Rule 170 mm Crank pin dia. 170 mm Crank Webs Mid. length breadth Thickness parallel to axis

Flywheel Shaft, diameter as per Rule 170 mm Intermediate Shafts, diameter as per Rule Thickness of cylinder liners 24 mm

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 lagged

Cooling Water Pumps, No. 1 Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Lubricating Oil Pumps, No. and size one, suction 3/4"

Air Compressors, No. one No. of stages 2 Diameters 320 x 200 mm Stroke 170 Driven by above engine

Scavenging Air Pumps, No. none Diameter Stroke Driven by

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes

Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces cover

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

High Pressure Air Receivers, No. none 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. one Total cubic capacity 150 Lbs Internal diameter 332 mm thickness 10 mm

Seamless, lap welded or riveted longitudinal joint lap welded Material S.C. Range of tensile strength 35/44 kg Working pressure by Rules 25 kg

ELECTRIC GENERATORS:—Type Compound wound

Pressure of supply 220 volts Load 320 Amperes Direct or Alternating Current Direct

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 Yes

Generators, do they comply with the requirements regarding rating Yes are they compound wound Yes

are they over compounded 5 per cent. Yes, if not compound wound state distance between each generator

is an adjustable regulating resistance fitted in series with each shunt field Yes Are all terminals accessible, clearly marked, and furnished with sockets Yes

are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched Yes Are the lubricating arrangements of the generators as per Rule Yes

PLANS. Are approved plans forwarded herewith for Shafting 21-1-32 Receivers 10-12-1930. Separate Tanks

SPARE GEAR All parts as required by Rules and in addition

one set of crosshead, crank pin and main bearing brassy, a

number of springs, spare parts for governor, cool water pump and

lubricating oil pump.

The foregoing is a correct description,
N.V. MACHINEFABRIEK & SCHEEPSWERK
van P. SMIT jr., ROTTERDAM.

Manufacturer.



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Dates of Survey while building
 During progress of work in shops - - 5-28/9 - 5-13/10 - 13-16/11 - 15/12 1931. 12-21/1 - 1/2 1932
 During erection on board vessel - - - 5-16/2 - 14/2 - 26/10
 Total No. of visits 17

Dates of Examination of principal parts—Cylinders 13/11-32 Covers 13/11-32 Pistons 13/10-32 Piston rods ✓

Connecting rods 20/9-32 Crank and Flywheel shaft 15/12-32 Intermediate shaft ✓

Crank and Flywheel shaft, Material *sell* Identification Mark *LL 9031 PK 2-10-1931* 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 machinery has been made in accordance with the Society's Rules, approved plans and Secretary's letters, material tested as required and workmanship good. After placing on board, it has been tested under full working conditions and found satisfactory.*)

1m. 7.38—Transfer. (The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Fee ... *per charge* When applied for, 19.....
 Travelling Expenses (if any) £ *10/-* When received, 19.....

A. P. Smith
 Surveyor to Lloyd's Register of Shipping

FRI. 11 NOV 1932

Committee's Minute

Assigned

See report attached



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