

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 4154 M

Received at London Office **17 MAR 1955**
 of writing Report 22.2. 1955 When handed in at Local Office 19 Port of Helsingfors
 in Survey held at Åbo and at Helsingfors Date, First Survey 8.12.53 Last Survey 12.1. 1955
 Book. Single on the Twin Screw vessel Kapitan Belousov Number of Visits 204
Triple Quadruple Tons { Gross 3710
Helsingfors Finland { Net 1050
 at Sudoimport, USSR By whom built Wärtsilä-Koncernen Ab. Yard No. 353 When built 1954
Sandvikens Skeppsdocka Port belonging to Murmansk
 Engines made at Åbo Finland By whom made Wärtsilä-Koncernen Ab. 18.19.20
H:fors Finland Crichton-Vulcan Engine No. 21.22.23 When made 1953/4
Oy Strömberg Ab, 353/1.22.42
 f Sets 6 B.H.P. of each Set 1625/2000 M.N. of each Set as per Rule 45.46.47 When made 1953/4
 intended for essential services yes Capacity of each Generator 1370 Kilowatts

ENGINES, &c.—Type of Engines K 58 M Diesel
2 stroke cycle Single or double acting
 mm pressure in cylinders 60 kg/cm² Diameter of cylinders 340 mm Length of stroke 570 mm No. of cylinders 8 No. of cranks 8
 indicated pressure 6, 8/7, 2 kg/cm² Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 494 mm
 be skure a bearing between each crank yes Moment of inertia of flywheel (16 m² or Kg.-cm.²) —
 wheel dia. no flywheel " " " " balance wts. " " " —
 Weight — Means of ignition solid Kind of fuel used gas oil
 Shaft, { Solid forged dia. of journals as per Rule —
 { ~~Semi-built~~ 235 mm Crank pin dia. 235 mm Crank Webs Mid. length breadth 324 mm Thickness parallel to axis —
 { ~~Alt-built~~ as fitted 130 mm shrunk Mid. length thickness 130 mm Thickness round eyeballs —
 e drain wheel Shaft, diameter as per Rule —
as fitted — Generator armature, moment of inertia (16 m² or Kg.-cm.²) 6500 kgm²
 means provided to prevent racing of the engine yes Means of lubrication forced feed Kind of damper if fitted fluid-type
 ie cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material lagged
 ng Water Pumps, No. and how driven 6 by el. mot Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes
 Broun eating Oil Pumps, No. and size 2 main and 2 standby, 180 tons per hour each
 yes 2 auxiliary
 18.2 ompressors, No. 2 main No. of stages 2 Diameters 62/55 mm 62 mm
110/100 mm Stroke 70 mm Driven by Electr. motors
 ng Air Pumps or Blowers, No. 1 on each diesel engine

RECEIVERS:—Have they been made under Survey. yes
 (other than main engines) State No. of Report or Certificate 3953 and 3954
 Full details of safety devices safety valve, pressure gauge
 Are the internal surfaces of the receivers be examined and cleaned yes
 Is there a drain arrangement fitted at the lowest part of each receiver yes
 Pressure Air Receivers, No. - Cubic capacity of each - Internal diameter - thickness -
 Is the joint, lap welded or riveted longitudinal joint - Material - Range of tensile strength - Working pressure -
 Gas Air Receivers, No. 4 Total cubic capacity 2 x 800 l
2 x 1500 l Internal diameter 626mm thickness 12mm
 Is the joint, lap welded or riveted longitudinal joint Seamless Material S.M. steel Range of tensile strength - Working pressure 25 kg/cm

TRIC GENERATORS:—Type GTKUL-135/346 Range of tensile strength 25 kg/cm² Working pressure 25 kg/cm²

re of supply 400 volts. Full Load Current 3430 Amperes. Direct or Alternating Current Direct

Alternating current system, state the periodicity - Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown off yes Generators, are they compounded as per Rule not comp. is an adjustable regulating resistance fitted in series with each shunt field yes

terminals accessible, clearly marked, and furnished with sockets yes Are they so spaced yes

ded that they cannot be accidentally earthed, short circuited, or touched yes Are the lubricating arrangements of the generators as per Rule yes

generators are under 100 kw. full load rating, have the makers supplied certificates of test - and do the results comply with the requirements -

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

of driven machinery other than generator Diesel engine driving generator only

S.—Are approved plans forwarded herewith for Shafting yes Receivers yes Separate Tanks yes

(If not, state date of approval) yes Approved 11.6.52

orsional Vibration characteristics if applicable been approved yes Armature shaft Drawing No. 143 GTK13510A

(State date of approval and name of previous duplicate case, if any) provided to the

spare gear required by the Rules been supplied yes

The foregoing is a correct description.

Wärtsilä-koncernen A/B
SANDVIKENS SKREPPDOCKA

Manufacturer.

Backstrom

© 2020

Lloyd's Register
Foundation

012187-012192, 0095

Lloyd's Register
Foundation