

REPORT ON OIL ENGINE ELECTRIC GENERATOR SETS.

No. 2707

11-JUL 1949

Received at London Office

Date of writing Report 28th June 1949. When handed in at Local Office 30th June 1949. Port of Malmö.

No. in Survey held at Malmö. Date, First Survey 18th June. Last Survey 22nd June 1949.

ing. Book 463 on the Single Screw vessel M/T "SOYA-MARIA". Tons 10.614 Gross 6.214 Net.

uilt at Malmö By whom built Kockums Meks. V. A. B. Yard No. 305 When built 1949.

wners Rudari A. B. Söga Port belonging to Stockholm.

l Engines made at Malmö By whom made Kockums Meks. V. A. B. Contract No. When made 1949.

nerators made at Västervik By whom made Aspa. Contract No. When made 1949.

o. of Sets 2 Engine Brake Horse Power 180 Nom. Horse Power as per Rule 45 Total Capacity of Generators 2 x 120 Kilowatts.

IL ENGINES, &c.—Type of Engines MAN. G3 V42 2 or 4 stroke cycle 4 Single or double acting Single.

aximum pressure in cylinders 50 kg/cm² Diameter of cylinders 275 mm Length of stroke 420 mm No. of cylinders 3 No. of cranks 3.

pan of bearings, adjacent to the Crank, measured from inner edge to inner edge 325 mm. Is there a bearing between each crank yes.

evolutions per minute 350 Flywheel dia. 1650 mm Weight 2360 kgs Means of ignition Diesel Kind of fuel used Heavy oil.

rank Shaft, dia. of journals 170 mm as fitted 170 mm Crank pin dia. 170 mm Crank Webs Mid. length breadth 280 mm Thickness parallel to axis Mid. length thickness 85 mm Thickness round eyebolt

lywheel Shaft, diameter as per Rule Intermediate Shafts, diameter as fitted Thickness of cylinder liners 22.5 mm.

a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication Forced.

re the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with non-conducting material Lagged.

ooling Water Pumps, No. 1-35 mi³/H. Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes.

ubricating Oil Pumps, No. and size 1-2 mi³/H to each engine.

ir Compressors, No. No. of stages Diameters Stroke Driven by

avenging Air Pumps, No. Diameter Stroke Driven by

AIR RECEIVERS:—Have they been made under Survey yes State No. of Report or Certificate 176 & 177.

s each receiver, which can be isolated, fitted with a safety valve as per Rule yes

an the internal surfaces of the receivers be examined yes What means are provided for cleaning their inner surfaces Manhole.

s there a drain arrangement fitted at the lowest part of each receiver yes

igh Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

eamless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

arting Air Receivers, No. 2 (main) Total cubic capacity 12 mi³ Internal diameter 1450 mm thickness 25 mm.

eamless, lap welded or riveted longitudinal joint Riveted Material SM steel Range of tensile strength 44.6-47.9 kg/mm² Working pressure by Rules 31.8 kg/cm².

ELECTRIC GENERATORS:—Type Open.

Pressure of supply 230 volts. Full Load Current 522 Amperes. Direct or Alternating Current Direct.

f alternating current system, state the periodicity Has the Automatic Governor been tested and found as per Rule when full load is suddenly thrown

m and off yes Generators, are they compounded as per Rule yes 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.

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

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

PLANS.—Are approved plans forwarded herewith for Shafting 9.1.1947 Receivers 18.5.1946 Separate Tanks

SPARE GEAR As per Rule complied.

Additional spare gear: - 1 cylinder cover. 1 cylinder liner.

2 pistons with gudgeon pins.

T.V.C. approved 20/6/49 for 375 k.w.

The foregoing is a correct description.

KOCKUMS
MEKANISKA VERSTÄDKÄTTAN

[Signature] Manufacturer.



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Foundation

004426-004431-0015

Dates of Survey while building { During progress of work in shops - - } From 18th Febr. to 2nd April, 1949.
 { During erection on board vessel - - } " 13th May " 22nd June, 1949.
 Total No. of visits 28.

Dates of Examination of principal parts—Cylinders 10.3 & 15.3.49. Covers 24.3.49. Pistons 24.3.49. Piston rods ✓
 Connecting rods 26.8.48 Crank and Flywheel shafts 15.9 & 14.10.48 Intermediate shafts ✓

Crank shaft { Material S.M. steel Tensile strength 56 - 59.9 kg. mm².
 { Elongation 20 - 23.3% Identification Marks No. 1388 L.M. 1388 L.M.
 14.10.48. 15.9.48.
 Flywheel shaft, Material ✓ Identification Marks ✓

Is this machinery duplicate of a previous case No Identification Marks ✓
 Identification marks on Air Receivers Nos. 176 & 177. Lloyd's Test 44 kg. cm². W.P. 30 kg. cm². A.B. 31.3.49.

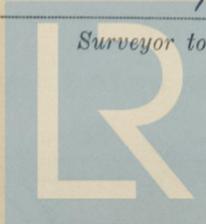
Is this machinery duplicate of a previous case No If so, state name of vessel ✓

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) Please see report of main engine

Im.11.42.-T (MADE AND PRINTED IN ENGLAND).
 (The Surveyors are requested not to write on or below the space for Committee Minute.)

The amount of Fee ... £ 320.- { When applied for 30th June, 1949.
 Travelling Expenses (if any) £ : : { When received 19.

Committee's Minute FRI. 22 JUL 1949
 Assigned See F.E. mch. rpt.

A. Baring
 Surveyor to Lloyd's Register of Shipping.
 Lloyd's Register Foundation