

No. 565

Received at London Office

28 MAR 1952

ENGINES, &c.—Type of Engines Heavy oil - Type KR 10 V 2 or 4 stroke cycle 4 Single or double acting S.A.

Mean pressure in cylinders 55 kg/cm² Diameter of cylinders 140 mm Length of stroke 190 No. of cylinders 4 No. of cranks 4

Indicated pressure { 6.9 kg/cm² Span of bearings (i.e., distance between inner edges of bearings in way of a crank) 185

A bearing between each crank yes { Moment of inertia of flywheel (16 m² or Kg.-cm.²) -- Revolutions per minute 700
" " " balance wts. " " " "

Crank pin dia. 750 mm Weight 230 kg Means of ignition compression Kind of fuel used Diesel

Shaft, { Solid forged as per Rule -- Mid. length breadth 105 mm Thickness parallel to axis --
Semi-built dia. of journals Crank pin dia. 85 mm Crank Webs shrunk
All-built as fitted 85 mm Mid. length thickness 44 mm Thickness round eye-hole --

Shaft diameter as per Rule -- Generator armature, moment of inertia (16 m² or Kg.-cm.²) --

ns provided to prevent racing of the engine. yes Means of lubrication forced Kind of damper if fitted --

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

Water Pumps, No. and how driven. one-2.15 m³/Hr. Is the sea suction provided with an efficient strainer which can be cleared within the vessel. yes

ing Oil Pumps, No. and size. one (gear wheel type) 0.5 m³/hr.

pressors, No. -- No. of stages -- Diameters -- Stroke -- Driven by --

ng Air Pumps or Blowers, No. -- How driven --

RECEIVERS:—Have they been made under Survey Germanischer Lloyd State No. of Report or Certificate --
 (than main engines)
 details of safety devices Safety valves fitted to each of the air receivers.

internal surfaces of the receivers be examined and cleaned.....yes

drain arrangement fitted at the lowest part of each receiver.....yes

Pressure Air Receivers, No. _____ Cubic capacity of each _____ Internal diameter _____ thickness _____
 Is welded or riveted longitudinal joint _____ Material _____ Range of tensile strength _____ Working pressure _____

Air Receivers, No. 7 Total cubic capacity 1 of 0.1 m³ Internal diameter 420 mm + 318 mm thickness 16 mm + 7.25 mm
 welded or riveted longitudinal joint seamless Material S.M. steel Range of tensile strength 60.5 kg/mm² Working pressure 106 + 52 kg/cm²

PIC GENERATORS:—Type M 20 FK/54, Makers: Hans Still, Hamburg.

If supply 230 volts. Full Load Current 130 Amperes. Direct or Alternating Current Direct

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

Generators, are they compounded as per Rule yes is an adjustable regulating resistance fitted in series with each shunt field yes

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

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

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

rators are 100 kw. or over have they been built and tested under survey. b6
b7Cdriven machinery other than generator. b6
b7C

-Are approved plans forwarded herewith for Shafting.....no.....Receivers.....no.....Separate Tanks.....no.....
(If not, state date of approval)

onal Vibration characteristics if applicable been approved no Armature shaft Drawing No. 100-100-100
(State date of approval and name of previous duplicate case, if any)

Are gear required by the Rules been supplied yes

The foregoing is a correct description,

Manufacturer.



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Lloyd's Register
Foundation

Dates of Survey while building
During progress of work in shops - -
During erection on board vessel - -
Total No. of visits 7

Dates of Examination of principal parts—Cylinders -- Covers -- Pistons -- Piston rods --
Connecting rods -- Crank and Flywheel shafts -- Intermediate shafts --

Crank shaft Material S.M. steel Tensile strength
Elongation Identification Marks 39 GL DEW 12 50
Engine No. 14099: Best.No. 2359/BKR 10 V,
Engine No. 14098: Best.No. 2359/BKR 10 V,
Identification Marks 41 GL DEW 12 50

Flywheel shaft, Material -- Identification Marks
6
Identification marks on Air Receivers 21422 H, Nos. 10001, 10003, 10004, 10005, 10006, 10007, 11 51, PD 60 AT
BDR 30 AT. Inh. 320 l. and 1 aux. air receiver: CH No. 329585, 8 51, 363/4, Inh. 100 l. PD 60 AT. BDR 40
Identification marks on cylinder blocks: Germanischer Lloyd, 15260 K + 15270 K, 10 51 5 atü.
" " " " covers 5/75 atü 9 51.

Is this machinery duplicate of a previous case -- If so, state name of vessel --

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.) These generator sets have been built and hydraulically tested under the survey of Germanischer Lloyd.

These engines have now been opened out and examined internally, two cylinder covers tested hydraulically with satisfactory results. The workmanship and the materials appear good. The generator sets have been satisfactorily installed on board the vessel and subsequently examined under working conditions, and found in good order.

These generator sets are eligible, in my opinion, to be classed with the notation LMC 12,51 with the distinguishing mark +.

The amount of Fee ... £ see Rpt. 8 (No. 565) When applied for 19
Travelling Expenses (if any) £ : : When received 19

Surveyor to Lloyd's Register of Shipping

Committee's Minute
Assigned
LR-FAF-SA23-299