

REPORT ON MACHINERY.

No. 12984
FRI. 20 JUL. 1923

Received at London Office

of certifying Report 10. 7. 1923 When handed in at Local Office

19

Port of Rotterdam

in Survey held at Rotterdam

Date, First Survey 15-12-22 Last Survey 16-6-1923

Book. on the Steel screw propelling Dredger No 74

(Number of Visits 16)

Tons } Gross
Net

ter Built at Rotterdam By whom built N.V. Burgerhout, Machfab & Scheepswerf When built 1923

ines made at Rotterdam By whom made also when made 1923

ers made at " By whom made " when made 1923

istered Horse Power Owners James Dredging Towing & Transport belonging to London

Horse Power as per Section 28 94 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

INES, &c.—Description of Engines One Vertical Triple expansion No. of Cylinders 3 No. of Cranks 3

of Cylinders 350 x 550 x 900 Length of Stroke 530 Revs. per minute 201 Dia. of Screw shaft as per rule as fitted Material of screw shaft

he screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight

he propeller boss If the liner is in more than one length are the joints burned If the liner does not fit tightly at the part

een the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two

s are fitted, is the shaft lapped or protected between the liners Length of stern bush

of Tunnel shaft as per rule as fitted Dia. of Crank shaft journals as per rule as fitted Dia. of Crank pin 180 Size of Crank webs 210 x 110 Dia. of thrust shaft under

rs Dia. of screw Pitch of Screw No. of Blades State whether moveable Total surface

of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work 2 feed slonkey 6 x 4 x 6

of Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work 1" injector

of Donkey Engines 3 Sizes of Pumps 2 x 6 x 4 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room 2 x 2 Boiler room 1 x 2 In Holds, &c. 4 x 1

of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size

all the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible

all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both

they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Discharge Pipes above or below the deep water line above

they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes

at pipes are carried through the bunkers None How are they protected

all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes

the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes

the Screw Shaft Tunnel watertight No tunnel Is it fitted with a watertight door worked from

MLERS, &c.—(Letter for record S) Manufacturers of Steel Davia Colville & Sons Ltd

al Heating Surface of Boilers 10516 Is Forced Draft fitted No No. and Description of Boilers One horizontal marine boiler

orking Pressure 190 lbs Tested by hydraulic pressure to 355 lbs Date of test 11-5-23 No. of Certificate 779

each boiler be worked separately Area of fire grate in each boiler 56.5 sq ft No. and Description of Safety Valves to

boiler 2 spring loaded Area of each valve Pressure to which they are adjusted 190 lbs Are they fitted with easing gear Yes

allest distance between boilers or uptakes and bunkers or woodwork One 10" Mean dia. of boilers 14'-1 1/4" Length 11' Material of shell plates Steel

ckness 1 1/2" Range of tensile strength 20-32 Ton Are the shell plates welded or flanged No Descrip. of riveting: cir. seams lap 2 x riv

seams Double butt 3 x riv Diameter of rivet holes in long. seams 1 1/4" Pitch of rivets 8 1/4" Lap of plates or width of butt straps 18 1/2"

centages of strength of longitudinal joint rivets 100% Working pressure of shell by rules 190 lbs Size of manhole in shell 12 x 16

of compensating ring 6 1/2 x 1 1/4 No. and Description of Furnaces in each boiler 2 Morrison Material Steel Outside diameter 4' 5"

ngth of plain part top bottom Thickness of plates crown bottom Description of longitudinal joint Welded No. of strengthening rings None

orking pressure of furnace by the rules 190 lbs Combustion chamber plates: Material Steel Thickness: Sides 7/8" Back 7/8" Top 7/8" Bottom 7/8"

h of stays to ditto: Sides 8.66 x 7.68 Back 7.87" Top 8.66 x 7.68 stays are fitted with nuts or riveted heads Working pressure by rules 205 lbs

terial of stays Steel Area at smallest part 20" Area supported by each stay 620" Working pressure by rules 201 lbs End plates in steam space:

terial Steel Thickness 1 3/16 Pitch of stays 7.7 x 10.12 How are stays secured Nuts Working pressure by rules 205 lbs Material of stays Steel

at smallest part 5.940" Area supported by each stay 3200" Working pressure by rules 209 lbs Material of Front plates at bottom Steel

ckness 2 1/2" Material of Lower back plate Steel Thickness 7/8" Greatest pitch of stays 15" Working pressure of plate by rules 18 lbs

meter of tubes 3 1/4" Pitch of tubes 4 1/2 x 4 1/2" Material of tube plates Steel Thickness: Front 2 1/2" Back 7/8" Mean pitch of stays 9 1/2 x 13 1/2"

ch across wide water spaces 15" Working pressures by rules 190 lbs Girders to Chamber tops: Material Steel Depth and

knness of girder at centre 9 1/2 x 2 x 1 1/4 Length as per rule 33.7 Distance apart 7.68 Number and pitch of stays in each 3 x 8.66

orking pressure by rules 240 lbs Steam dome: description of joint to shell % of strength of joint

meter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

h of rivets Working pressure of shell by rules Crown plates Thickness How stayed

PERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

e of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

meter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

IS A DONKEY BOILER FITTED? *No*

If so, is a report now forwarded? *L*

SPARE GEAR. State the articles supplied:— *One set of coupling bolts, 2 top end bolts and nuts, 2 top end bolts and nuts, 2 main bearing bolts and nuts, One set of piston rings. One set of valves for feed and budge pumps a quantity of assorted bolts and nuts and iron of various sizes*

The foregoing is a correct description,

P. P. BURGERHOUT'S MACHINEFABRIEK & SCHEEPSWERF

P. Burgerhout

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1922 1/2 1923 1/2 8/12 13/12 21/12 1/1 3/1 10/1 24/1 1/2
During erection on board vessel -- 1923 1/4 1/6 2/6
Total No. of visits 15

Is the approved plan of main boiler forwarded herewith *Retained in London Office*

Dates of Examination of principal parts—Cylinders *28-5-23* Slides *8-2-23* Covers *8-2-23* Pistons *8-2-23* Rods *28-5-23*

Connecting rods *28-5-23* Crank shaft *28-5-23* Thrust shaft *L* Tunnel shafts *L* Screw shaft *L* Propeller *L*

Stern tube *L* Steam pipes tested *1-6-23* Engine and boiler seatings *11-5-23* Engines holding down bolts *1-6-23*

Completion of pumping arrangements *1-6-23* Boilers fixed *1-6-23* Engines tried under steam *26-6-23*

Completion of fitting sea connections *27-4-23* Stern tube *L* Screw shaft and propeller *L*

Main boiler safety valves adjusted *1-6-23* Thickness of adjusting washers *17 mm 14 mm*

Material of Crank shaft *Steel* Identification Mark on Do. *22-4-23 24-6-23 AB-4-23*

Material of Tunnel shafts *L* Identification Marks on Do. *L* Material of Thrust shaft *L* Identification Mark on Do. *L*

Material of Steam Pipes *Steel* Test pressure *555 lbs*

Is an installation fitted for burning oil fuel *No* Is the flash point of the oil to be used over 150°F. *L*

Have the requirements of Section 49 of the Rules been complied with *L*

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

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery has been*

made in accordance with the Rules, approved plans and

Secretary's letters, material tested as required and work-

manship good, the machinery was found in a good

working condition when tried and I am of opinion that

this vessel is eligible to be recorded in the Society's Register

Book with **LMC 6-23.**

Non propelling.

It is submitted that this vessel is eligible for THE RECORD. + NB 6.23. 1907.

J. W. D.
26/7/23

J. J. Ochoa

Engineer/Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee ... *£ 24.00*
Special ... *£ 202.00*
Donkey Boiler Fee ... *£*
Travelling Expenses (if any) ... *£ 27.00*

When applied for, 13/7 12/3

When received, 20/7 23

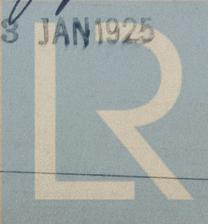
Committee's Minute

FRI. JUL 27 1923

TUES. 13 JAN 1925

Assigned

+ NB 6.23 - 1907



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