

IS A DONKEY BOILER FITTED? *yes*

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

SPARE GEAR. State the articles supplied:—

1/3 crankshaft, 1 propeller shaft suitable for both sides, 2 filler blades 2 for each side, 1 set of studs with nuts for same, 2 1/2 main bearings with 1 cover, 2 bolts with nuts for same, 3/4 connecting rod bottom end brasses with 2 bolts & nuts, 4/2 connecting rod top end brasses with 4 bolts & nuts, 1 bronze shoe for thrust shaft compl., 5 coupling bolts for crankshaft, 2 1/4 coupling bolts with nuts for intermediate shaft, 10 ring bolts for thrust shaft, 2 studs with nuts for rocking shaft bearing, 4 links compl. each side. Spare gear for Motors please see separate sheet attached.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
During progress of work in shops -- 3 visits 1/10, 10/11, 12/11, 1913, 38 visits 1913, 16/1, 24/1, 28/1, 30/1, 1/2, 1/4, 23/2 & 24/2 1914.
During erection on board vessel -- 18, 28/4, 2/5, 8, 22, 25/5, 5, 10/5, 17, 22, 24, 27, 29/6, 3, 6, 10, 15, 17, 24, 30 & 31/7 1914.
Total No. of visits 103

Is the approved plan of main boiler forwarded herewith

" " " donkey " " *yes*

Dates of Examination of principal parts—Cylinders 15-20/3 1/3 Slides— Covers 18-28/3 1/3 Pistons 16-19/4 1/3 Rods 8-26/4

Connecting rods 18-20/3 1/3 Crank shaft 20-28/3 1/3 Thrust shaft 20-28/3 1/3 Tunnel shafts 1/3 1/3 1/3 Screw shaft 21-34/4 1/3 Propeller 21/4

Stern tubes 30/4 1/3 Steam pipes tested 22/6 14 Engine and boiler seatings 22/5 14 Engines holding down bolts 22/5 14

Completion of pumping arrangements 22/5 14 Donkey fixed 22/6 14 Engines tried under working condition 21/5

Donkey boiler safety valves adjusted 15/7 14 Thickness of adjusting washers 2 1/2 4/6, Port 5/8

Material of Crank shaft Steel Identification Mark on Do. 3998 & 3999 Material of Thrust shaft Steel Identification Mark on Do. 3962

Material of Tunnel shafts Steel Identification Marks on Do. 4204-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

Material of Steam Pipes Steel Test pressure 250 lbs.

Is an installation fitted for burning oil fuel *yes, 4 D.B.* Is the flash point of the oil to be used over 150° F. *yes*

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

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. *Material and workmanship of the Diesel oil engines are of best description. The general outfit is very ample. The forgings, scales of shafting will be found attached. The electric driven auxiliary engines and pumping arrangements are very complete. I attended to several satisfactory moving trials, when the engines and their auxiliaries gave full satisfaction. A trial trip could not be attended under present circumstances. The engines developing about 3000 H.P. and running at 120 revolutions per minute, the lowest number of revolutions attained were 84-85, during the moving trial. The machinery of this vessel has been constructed under Special Survey in accordance with the Society's Rules, I beg to recommend that they be classed **LMC 7, 14** and Oil Engines be entered in the Register Book and that a Certificate to this effect be issued.*

Continuation of Report No. 14265 dated 14 August 1914 on the

Twin Screw Motor Vessel "Fritz" No. 207.

Spare Gear.

1 cylinder compl. with studs, bolts & nuts, 4 interm. covers for top side, 4 interm. covers for bottom side of cylinders, 1 piston rod compl. with studs & nuts, 3 top & 3 lower pistons compl. with rings, 3 glands for piston rods compl. with studs & nuts, 16 oil fuel valves compl. with springs & 9 needles extra, 6 carburettors compl., 10 scavenge air valves compl. with 4 spindles & 13 springs extra, 1 spindle with 2 springs for injection air bottle, 4 starting valves compl. with 180 rings, 2 starting piston valves compl. for top & bottom side extra, 6 safety valves compl. for cylinders, 4 cooling water pipes & 4 cooling coils and 4 swiffls for cylinders and covers, 14 helical whds, 1 piston with rod compl. for scavenge pump, 2 suction & 4 delivery valves & seats compl. for scavenge pump, 18 non return valves & springs for delivery pipes from compressor to bottle, 1 spring for escape valve in exhaust pipe line, 25 cooling water connections, 3 inblast air valves compl., 2 valves compl. with 32 safety plates for air bottles, 1 set of pipes for inblast air from compressor to bottles, 1 set of steel pipes of each kind & length, 8 suction & delivery valves with seats & springs compl. and 1 plunger for oil fuel pump, 1 pump casing compl. with 6 suction & delivery plungers & 23 valves for oil fuel pump, also 3 eccentric traps 2 bearings and 2 springs for them.

Compressor (Pikorney & Withering)

1 main bearing compl. with bolts & nuts, 1/4 crosshead compl. with bolts & nuts, 2 sets of piston rings of each piston, 2 suction & 2 delivery valves compl. for H.P. & L.P., 1 set of springs for suction, delivery and safety valves.

Compressor (Reavell)

2 1/2 crankpin brases, 1 set of piston rings for each cylinder, 3 sets of valves, seats & springs for each cylinder, 3 sets of springs of each diameter used, 2 delivery pipes compl. from H.P. to L.P. and from L.P. to L.P. cooler.

Auxiliary Compressor.

2 1/2 crankpin brases, 1 set compl. of valves with spring for suction & delivery, 1 compl. set of piston rings for each cylinder.

Swidowski-Motor.

2 1/2 crankpin brases compl. with bolts & nuts, 2 1/2 crosshead brases compl. with bolts & nuts, 7 piston rings, 13 springs of each kind used, 4 valves for oil fuel pump, 2 non return valves for cooling water pump, 2 hot bulbs, 2 carburettors, 1 eccentric strap, 2 set of valves & springs for air delivery, 1 large number of pipes of each kind & length, joints, bolts, nuts, studs, plate and bar iron assorted.

J. Köhler

W332-0160 (212)

5.8. No. 1-20

Certificate (if required) to be sent to this office

The amount of Entry Fee ... £ 63 : When applied for, 16.12.1915
Special ... £ 1400 :
Donkey Boiler Fee ... £ 42 :
Travelling Expenses (if any) ... £ 505 : When received, 21.12.1915

Committee's Minute FRI. JUL. 16 1920

Assigned See minute on Lth rpt No. 15771

J. Köhler
Engineer-Surveyor to Lloyd's Register of British & Foreign Shipping

EXHIB. 181021 TUE OCT. 10 1922

FRI. SEP. 3 1920

FRI. DEC. 3 1920

FRI. OCT. 14 1921

TUES 22 JUL 1921

FRI. AUG. 31 1923

Lloyd's Register