

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

30 AUG 1934

Date of writing Report 28<sup>th</sup> Aug. 1934 When handed in at Local Office 28<sup>th</sup> Aug. 1934 Port of *Leith*No. in Survey held at *Burntisland* Date, First Survey 30<sup>th</sup> July Last Survey 22<sup>nd</sup> Aug. 1934

Reg. Book.

Sup 90453 on the *S/S "PETWORTH"*

Number of Visits 7.

Gross 941.85

Tons Net 518.39

Built at *Burntisland* By whom built *Burntisland SBC & L<sup>td</sup>* Yard No. 179 When built 1934Engines made at *Glasgow* By whom made *D. Rowan & C<sup>o</sup> L<sup>td</sup>* Engine No. 960 When made 1934Boilers made at *Glasgow* By whom made *D. Rowan & C<sup>o</sup> L<sup>td</sup>* Boiler No. 960 When made 1934Registered Horse Power *✓* Owners *Stephenson Blake & Associated C<sup>o</sup> L<sup>td</sup>* Port belonging to *London*Nom. Horse Power as per Rule 118 *✓* Is Refrigerating Machinery fitted for cargo purposes *✓* Is Electric Light fitted *Yes*Trade for which Vessel is intended *✓*

## ENGINES, &amp;c.—Description of Engines

Dia. of Cylinders	Length of Stroke	No. of Cylinders	Revs. per minute
Crank shaft, dia. of journals	Crank pin dia.	Crank webs	No. of Cranks
Intermediate Shafts, diameter	Thrust shaft, diameter at collars		
Tube Shafts, diameter	Screw Shaft, diameter		
Bronze Liners, thickness in way of bushes	Thickness between bushes		
Propeller, dia.	Pitch	No.	Material
Feed Pumps worked from the Main Engines	Diameter	Stroke	Can one be overhauled while the other is at work
Bilge Pumps worked from the Main Engines	Diameter	Stroke	Can one be overhauled while the other is at work
Feed Pumps	No. and size	How driven	
Ballast Pumps	No. and size		
Are two independent means arranged for circulating water through the Oil Cooler			
Bilge Pumps;—In Engine and Boiler Room			
In Pump Room			

Main Water Circulating Pump Direct Bilge Suctions, No. and size	Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size
Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges	Are they fitted with Valves or Cocks
Are all Sea Connections fitted direct on the skin of the ship	Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates
Are they each fitted with a Discharge Valve always accessible on the plating of the vessel	Are the Blow Off Cocks fitted with a spigot and brass covering plate
What Pipes pass through the bunkers	How are they protected
What pipes pass through the deep tanks	Have they been tested as per Rule
Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times	Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one compartment to another
Is the Shaft Tunnel watertight	Is it fitted with a watertight door

## MAIN BOILERS, &amp;c.—(Letter for record ) Total Heating Surface of Boilers

Is Forced Draft fitted	No. and Description of Boilers	Working Pressure
IS A REPORT ON MAIN BOILERS NOW FORWARDED		
IS A DONKEY BOILER FITTED?		
Is the donkey boiler intended to be used for domestic purposes only		
PLANS. Are approved plans forwarded herewith	Main Boilers	Auxiliary Boilers
Superheaters	General Pumping Arrangements	Oil fuel Burning Piping Arrangements

## SPARE GEAR.

Has the spare gear required by the Rules been supplied *Yes*

State the principal additional spare gear supplied

*Two top end bolts & nuts*  
*Two bottom end bolts & nuts*  
*Two Main Bearing Bolts*  
*One set of coupling bolts*  
*One set of feed & bilge pump valves*  
*One set of piston rings for H.P. & I.P. cylns.*  
*Assorted bolts & nuts & iron.*

The foregoing is a correct description,

Manufacturer.



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012446 - 012459 - 0304



During progress of work in shops - -

Dates of Survey while building

During erection on board vessel - -

Total No. of visits 7.

1934. July 3-11-27. Aug. 1-7-13-22.

Dates of Examination of principal parts—Cylinders ✓ Slides ✓ Covers ✓

Pistons ✓ Piston Rods ✓ Connecting rods ✓

Crank shaft ✓ Thrust shaft ✓ Intermediate shafts ✓

Tube shaft ✓ Screw shaft ✓ Propeller ✓

Stern tube 3/7/34 Engine and boiler seatings 27/7/34 Engines holding down bolts 7/8/34

Completion of fitting sea connections 11/7/34

Completion of pumping arrangements 13/8/34 Boilers fixed 7/8/34 Engines tried under steam 13/8/34, 22/8/34.

Main boiler safety valves adjusted 13/8/34. Thickness of adjusting washers Port 3/8" Starboard 1/32"

Crank shaft material ✓ Identification Mark ✓ Thrust shaft material ✓ Identification Mark ✓

Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark ✓

Screw shaft, material ✓ Identification Mark ✓ Steam Pipes, material Steel Test pressure 600lbs. Date of Test 6/7/34.

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

Have the requirements of the Rules for the use of oil as fuel been complied with ✓

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo No If so, have the requirements of the Rules been complied with ✓

If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel S/S "Pulborough"

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

efficiently fitted on board, the materials & workmanship being sound & good.  
On completion all safety valves were adjusted under steam & the Main & Auxiliary machinery were tried under working conditions & found satisfactory

This machinery in our opinion is in safe working condition & eligible to be classed in the Register Book with the notation of  $\star$  LMC 8-34 & TS (CL)

The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee ... £

Special ... £

Donkey Boiler Fee ... £

Travelling Expenses (if any) £

When applied for, 29-8-1934.

When received, 5-9-1934.

Committee's Minute

Assigned

FRI. 7 SEP 1934

CERTIFICATE WRITTEN

Chas R Rowcliffe & John Houston  
Engineer Surveyors to Lloyd's Register of Shipping.



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