

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

12 SEP 1929

Date of writing Report

19

When handed in at Local Office

29. 10 29

Port of Newcastle-on-Tyne

in Survey held at

Newcastle

Date, First Survey

4 March

Last Survey

1 Sept. 1929

of oping. Book.

(Number of Visits)

45

on the *Swan Hunter Triple Expansion engine for the "VIKINGEN."*

Built at

Newcastle By whom built *Swan Hunter, Wigham R. Sm.*

Tons

Gross 12639

Net 8884

Engines made at

Newcastle By whom made *Swan Hunter, W R. Sm.*

When built

1929.

Boilers made at

Newcastle By whom made *do*

when made

1929.

Registered Horse Power

Boiler No. 1332 when made 1929.

Horse Power as per Rule

443

Owners *Viking Whaling Co. Ltd.* Port belonging to

Vessel for which Vessel is intended

Whaling

Description of Engines

Swan Hunter Triple Expansion

Revs. per minute 103

No. of Cylinders

22 1/2 x 36 1/2 x 61

Length of Stroke

39

No. of Cranks

3

Crank shaft, dia. of journals

as per Rule 12.06

as fitted 12.25

Crank pin dia. 12.25

Crank webs

Mid. length breadth 19

Thick. parallel to axis 4 1/4

Intermediate Shafts, diameter

as per Rule 11.49

as fitted 11.5

Thrust shaft, diameter at collars

as per Rule 12.06

as fitted 12.25

Main Shafts, diameter

as per Rule

as fitted

Screw Shaft, diameter

as per Rule 13.24

as fitted 14.22

Is the tube

shaft fitted with a continuous liner

Liners, thickness in way of bushes

as per Rule 4.04

as fitted 25/32

Thickness between bushes

as per Rule 5.3

as fitted 3/4

Is the after end of the liner made watertight in the

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner

The liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

Two liners are fitted, is the shaft lapped or protected between the liners

Is an approved Oil Gland or other appliance fitted at the after

of the tube shaft

Propeller, dia. 14-3

Pitch 13-0

No. of Blades 4

Material 8. Steel

Whether Moveable

Total Developed Surface 68 sq. feet

Diameter

Stroke

Can one be overhauled while the other is at work

Diameter 3 1/2

Stroke 22

Can one be overhauled while the other is at work

No. and size

How driven

Pumps connected to the

Main Bilge Line

No. and size

How driven

Lubricating Oil Pumps, including Spare Pump, No. and size

Two independent means arranged for circulating water through the

Oil Cooler

Suctions, connected to both Main Bilge Pumps and Auxiliary

Pumps;—In Engine and Boiler Room

Three 3 1/2" dia.

Folds, etc.

Water Circulating Pump Direct Bilge Suctions, No. and size

Two 8" dia.

Independent Power Pump Direct Suctions to the Engine Room Bilges,

and size

One 6" dia.

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes

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

All Sea Connections fitted direct on the skin of the ship

Are they fitted with Valves or Cocks

Valves

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates

Are the Overboard Discharges above or below the deep water line

Below

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

Pipes pass through the bunkers

How are they protected

Pipes pass through the deep tanks

Have they been tested as per Rule

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

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

worked from

Main BOILERS, &c.—(Letter for record)

Total Heating Surface of Boilers 11810 sq. ft.

Reed Draft fitted

No. and Description of Boilers

Two single ended

Working Pressure 210 lbs. sq. in.

A REPORT ON MAIN BOILERS NOW FORWARDED?

A DONKEY BOILER FITTED?

If so, is a report now forwarded?

Are approved plans forwarded herewith for Shafting

Main Boilers

Auxiliary Boilers

Donkey Boilers

General Pumping Arrangements

Oil fuel Burning Piping Arrangements

State the articles supplied:—

As per attached list.

The foregoing is a correct description,

FOR SWAN, HUNTER & WIGHAM RICHARDSON, LTD.

Manufacturer.

DIRECTOR.

006301-006316-0069



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Lloyd's Register Foundation

1929	
Dates of Survey while building	During progress of work in shops - -
	During erection on board vessel - -
	Total No. of visits

Mar. 4. Apr. 10. 11. 23. 26. May 9. 10. 24. 29. 30. June 3. 11. 19. 20. 21. July 1. 2. 3. 4. 6. 8.
 11. 12. 15. 17. 19. 22. 23. 24. 26. 29. 30. 31. Aug. 2. 6. 8. 9. 14. 15. 21. 23. 28. 31. Sep. 1.

45.

Dates of Examination of principal parts—Cylinders 11. 6. 29.		Slides 11. 6. 29		Covers 11. 6. 29.	
Pistons 11. 6. 29.	Piston Rods 11. 6. 29.	Connecting rods 11. 6. 29.			
Crank shaft 20. 6. 29	Thrust shaft 20. 6. 29.	Intermediate shafts none.			
Tube shaft -	Screw shaft 20. 6. 29.	Propeller 4. 4. 29.			
Stern tube 4. 4. 29.	Engine and boiler seatings 24. 4. 29.	Engines holding down bolts 31. 4. 29.			
Completion of fitting sea connections 4. 4. 29.					
Completion of pumping arrangements 23. 8. 29.		Boilers fixed 23. 8. 29		Engines tried under steam 31. 8. 29	
Main boiler safety valves adjusted 23. 8. 29.		Thickness of adjusting washers 2 1/2" - 3 1/2" apv. 17/16 - 25/16			
Crank shaft material Steel	Identification Mark 20. 6. 29	Thrust shaft material Steel		Identification Mark 20. 6. 29	
Intermediate shafts, material none.	Identification Marks -	Tube shaft, material -		Identification Mark -	
Screw shaft, material Steel	Identification Mark 20. 6. 29	Steam Pipes, material Steel		Test pressure 630 lbs Date of Test 23/29	
Is an installation fitted for burning oil fuel Yes		Is the flash point of the oil to be used over 150°F. Yes.			
Have the requirements of the Rules for carrying and burning oil fuel 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. The Machinery of this vessel has been built under special survey in accordance with the approved plans & the Rules of the Society & has now been securely fitted on board the vessel, tried under full working conditions & found satisfactory. The Machinery of this vessel is eligible, in my opinion, to have record of T. L. M. C. 9-29.

It is submitted that
this vessel is eligible for
THE RECORD. + SMC

+ LMC 9.29. C. F.D. Filled for oil fuel. H. abn

29. 13/9/29.

The amount of Entry Fee	...	£	6	:	-	:	When applied for,
Special	...	£	113	:	13	:	29 SEP 1929
Donkey Boiler Fee	...	£	:	:	:	:	When received,
Travelling Expenses (if any)	£	:	:	:	:	:	11-9-29

Geo. A. Higney.

Engineer Surveyor to Lloyd's Register of Shipping

Committee's Minute

Assigned

+ LMC 9:29 F. & C.
F. & C. 9:29; F. & C. 150

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