

Rpt. 4.

## REPORT ON MACHINERY.

14 SEP 1928

No. 48258

Received at London Office

8 AUG 1928

Date of writing Report 12 Sept 28 When handed in at Local Office 4. 8. 28 Port of Glasgow  
No. in Survey held at Glasgow Date, First Survey 19. 3. 28 Last Survey 3-8-1928  
Reg. Book. on the S.S. "USKMOUTH" (Number of Visits 334 Gross 7-41 Tons Net 7-41)  
Master Built at Buntisland By whom built Buntisland SBC (S/N 148) When built 1928  
Engines made at Glasgow By whom made David Rowan & Co Ltd (N° 885) when made 1928  
Boilers made at Glasgow By whom made David Rowan & Co Ltd (N° 885) when made 1928  
Registered Horse Power 259 Owners Uskide Steamship Co Ltd Port belonging to Newport  
Nom. Horse Power as per Section 28 259 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

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

Triple expansion No. of Cylinders 3 No. of Cranks 3  
Dia. of Cylinders 22-36-60 Length of Stroke 39" Revs. per minute 11.298 Dia. of Screw shaft 12.03 Material of steel  
Is the screw shaft fitted with a continuous liner the whole length of the stern tube yes (No 0.9) Is the after end of the liner made water tight  
in the propeller boss yes If the liner is in more than one length are the joints burned - If 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 yes If two  
liners are fitted, is the shaft lapped or protected between the liners ✓ Length of stern bush 4-12"  
Dia. of Tunnel shaft 10.76 Dia. of Crank shaft journals 11.298 Dia. of Crank pin 11.2 Size of Crank webs 18x7.2 Dia. of thrust shaft under  
collars 11.2 Dia. of screw 15.3 Pitch of Screw 16-6 No. of Blades 4 State whether moveable no Total surface 73.60 ft  
No. of Feed pumps 2 Diameter of ditto 3.2 Stroke 21" Can one be overhauled while the other is at work yes  
No. of Bilge pumps 2 Diameter of ditto 3.2 Stroke 21" Can one be overhauled while the other is at work yes  
No. of Donkey Engines 3 Sizes of Pumps 8x10x8. 8x5x8. 8x5x8 No. and size of Suctions connected to both Bilge and Donkey pumps  
In Engine Room 3-2.2", 1-4" special, 1-2.2" tunnel In Holds, &c. N°1:-2-2.2", N°2:-2-3", N°3:-3-3"

No. of Bilge Injections 1 sizes 4.2" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size yes-4"  
Are all the bilge suction pipes fitted with roses yes Are the Mud Bores in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible -  
Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks both  
Are 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  
Are 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  
What pipes are carried through the bunkers ✓ How are they protected ✓  
Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes  
Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes  
Is the Screw Shaft Tunnel watertight yes Is it fitted with a watertight door yes worked from deck (top platform)  
BOILERS, &c.—(Letter for record (S)) Manufacturers of Steel Witkowski, Bergbau und Eisenhütten-Bewerkschaft in Witkowitz

Total Heating Surface of Boilers 4200 ft Is Forced Draft fitted no No. and Description of Boilers two single ended  
Working Pressure 180 Tested by hydraulic pressure to 320 Date of test 26-6-28 No. of Certificate 17944  
Can each boiler be worked separately yes Area of fire grate in each boiler 57.75 ft No. and Description of Safety Valves to  
each boiler two direct spring Area of each valve 7.06 ft Pressure to which they are adjusted 180 lb/ft Are they fitted with easing gear yes  
Smallest distance between boilers or uptakes and bunkers or woodwork 14" Mean dia. of boilers 14-9" Length 10-6" Material of shell plates steel  
Thickness 1.13" Range of tensile strength 28-32 tons Are the shell plates welded or flanged no Descrip. of riveting: cir. seams DR. lap  
long. seams DBSTR Diameter of rivet holes in long. seams 1.1" Pitch of rivets 8.27" Lap of plates or width of butt straps 18.34"  
Per centages of strength of longitudinal joint 88.5 Working pressure of shell by rules 180 Size of manhole in shell 19.5"x15.5"  
Section 9"x1.13" No. and Description of Furnaces in each boiler 3 Bighton Material steel Outside diameter 43.32"  
Size of compensating ring 9"x1.13" Thickness of plates 3.5" Description of longitudinal joint welded No. of strengthening rings none  
Length of plain part top 3.5" bottom 3.64" Working pressure of furnace by the rules 184 Combustion chamber plates: Material steel Thickness: Sides 23" Back 21" Top 23" Bottom 23"  
Pitch of stays to ditto: Sides 10.3"x9.5" Back 9.4"x8.7" Top 10.3"x9.5" If stays are fitted with nuts or riveted heads nuts Working pressure by rules 182  
Material of stays steel Area at smallest part 1.73 ft Area supported by each stay 8.20 ft Working pressure by rules 185 End plates in steam space:  
Material steel Thickness 1.4" Pitch of stays 20.5"x19.2" How are stays secured BN Working pressure by rules 180 Material of stays steel  
Area at smallest part 5.44 ft Area supported by each stay 3.62 ft Working pressure by rules 181 Material of Front plates at bottom steel  
Thickness 2.7" Material of Lower back plate steel Thickness 3.4" Greatest pitch of stays 13.8"x8.8" Working pressure of plate by rules 181  
Diameter of tubes 3.1" Pitch of tubes 4.2"x4.3/8" Material of tube plates steel Thickness: Front 2.7" Back 2.3" Mean pitch of stays 10"  
Pitch across wide water spaces 13.7"x8.3/4" Working pressures by rules 183 Girders to Chamber tops: Material steel Depth and  
thickness of girder at centre 20.7"x7.8" Length as per rule 32.34" Distance apart 9.5" Number and pitch of stays in each 2 @ 10.3/8"  
Working pressure by rules 181 Steam dome: description of joint to shell none % of strength of joint  
Diameter ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet holes ✓  
Pitch of rivets ✓ Working pressure of shell by rules ✓ Crown plates ✓ Thickness ✓ How stayed ✓  
SUPERHEATER. Type none Date of Approval of Plan ✓ Tested by Hydraulic Pressure to ✓  
Date of Test ✓ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler ✓  
Diameter of Safety Valve ✓ Pressure to which each is adjusted ✓ Is Easing Gear fitted ✓

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IS A DONKEY BOILER FITTED?

Yes

If so, is a report now forwarded?

Yes

SPARE GEAR. State the articles supplied:—

2 connecting rod top-end bolts + nuts, 2 connecting rod bottom-end bolts + nuts, 2 main bearing bolts, 1 set of coupling bolts, 1 set of fad + bilge pump valves, a quantity of assorted bolts + nuts.

The foregoing is a correct description,

For David Rowan & Co. Ltd  
Arch. N. Grierson

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1928 Mar 19 Apr 10, 24, 27 May 2, 11, 18, 22, 24, 28, 29 Jun 4, 5, 14, 15, 19, 20, 21, 22, 25, 26, 27, 28, 29  
During erection on board vessel -- July 2, 4, 5, 6, 9, 10, 11, 26, 31 Aug 3  
Total No. of visits 35 (in shops) 8 (on board) Is the approved plan of main boiler forwarded herewith yes

Dates of Examination of principal parts—Cylinders 4-6-28 Slides 2-7-28 Covers 15-6-28 Pistons 20-6-28 Rods 10-7-28

Connecting rods 29-6-28 Crank shaft 19-6-28 Thrust shaft 6-7-28 Tunnel shafts 15-6-28 Screw shaft 9-7-28 Propeller 9-7-28

Stern tube 26-7-28 Steam pipes tested 27-8-28 Engine and boiler seatings 13-8-28 Engines holding down bolts 31-8-28

Completion of pumping arrangements 31-8-28 Boilers fixed 16-8-28 Engines tried under steam 7-9-28

Completion of fitting sea connections 5-7-28 Stern tube 16-7-28 Screw shaft and propeller 26-7-28

Main boiler safety valves adjusted 31-8-28 Thickness of adjusting washers Port Boiler 4" S.V. 5" Star 6" S.V. 2" Donkey Bn. 13" A.V. 3/8"

Material of Crank shaft J. Steel Identification Mark on Do. Material of Thrust shaft J. Steel Identification Mark on Do.

Material of Tunnel shafts J. Steel Identification Marks on Do. Material of Screw shafts J. Steel Identification Marks on Do.

Material of Steam Pipes Woot. Iron Test pressure 540 lb/sq. in.

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 Section 49 of the Rules been complied with ✓

Is this machinery duplicate of a previous case yes If so, state name of vessel "Goleta"

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

The materials and workmanship are good  
The machinery has been constructed under special survey in accordance with the Rules. It is being sent to Burntisland to be fitted in the vessel.

The machinery has now been satisfactorily fitted in the vessel, tried under steam & found satisfactory. The machinery is now in a good & safe working condition which renders the vessel eligible, in my opinion, to have the notation + L.M.C.-9-28

It is submitted that this vessel is eligible for THE RECORD. + L.M.C.-9-28

CB.  
12-9-28

The amount of Entry Fee ... £ 4 :  
Special fee ... £ 51 :  
1/2 fee - due 1st Apr ... £ 12 : 17  
Donkey Boiler Fee ... £ 12 : 17  
Travelling Expenses (if any) £ 0 : 18

When applied for,  
6-8-1928

When received,  
18-9-28

L. C. Davis

Engineer Surveyor to Lloyd's Register of Shipping.

Clive Bell

TUE 18 SEP 1928

+ L.M.C.-9-28

Lloyd's Register

CERTIFICATE WRITTEN

Committee's Minute

GLASGOW 7 - AUG 1928

Assigned Deferred

Rpt. 5a.

Date of writing

No. in Reg. Book.

Master

Engines made

Boilers made

Nominal Horse

MULTITU

Manufacturer

Total Heating

No. and Desc

Tested by hyd

Area of Fire

Area of each

In case of don

Smallest disto

Smallest disto

Largest inter

Thickness

long. seams

Percentage of

Percentage of

Thickness of

Material

Length of pl

Dimensions

End plates

How are sta

Tube plates

Mean pitch

Girders to

at centre

in each

Tensile stren

Pitch of stay

Working pr

Thickness

Pitch of stay

Working Pr

Diameter

Working pr

Diameter