

Rpt. 9 /R. Date of writing report 8-7-57 Received London 31 JUL 1957 Port NEWCASTLE-ON-TYNE No. 114514
 Survey held at South Shields No. of visits 26 First date 24-1-57 Last date 4-7-57

REPORT OF PERIODICAL SURVEYS & REPAIRS OF MACHINERY

No. in R.B. 53100 Name S.S. "BARON HERRIES" Gross tons 4574 Date of build 1940 - 2
 Owners Kelvin Shipping Co., Ltd. Managers H. Hogarth & Sons Ltd. Port of Registry Ardrossan
 Engines made 1940 By D. Rowan & Co., Ltd. Type Triple Expansion
 No. of Main Engines 1 No. of Screws 1
 No. of Main Boilers 2 S.B. W.P. 220Lbs.
 No. of ~~Donkey~~/Donkey Boilers W.P.
 Surveyed Afloat ~~in~~ in Dry Dock Readhead's
 Nature of Survey LMC O.F. Conn.
 Was Damage Report issued? - Int. Cert.? Yes
 Last Report (For Head Office only)

Records of Survey & Special Notations as per Register Book

Hull	Machinery
B.S.*	M.B.S.* 1.56
1.56	
S.S. Hul. 1.52	Blrs. 4.56
	C.L. 2.54
	sps. 1.52

The condition of any of the following items is to be described as "good" only when the part has been examined, found or placed in good condition, and is considered to be acceptable until the due date of the next Periodical Examination. Where it is considered that re-examination or repairs should be effected before the due date of the next Periodical Examination a distinguishing mark thus † should be inserted against the item and the circumstances and action recommended described fully under "defects and repairs". At part or complete Special Surveys those items which are not applicable to the ship should be cancelled with a black line; this need not be done when the machinery is on a continuous survey basis. When any part has been subjected to pressure test this should be stated. Engine parts when referred to by numbers should be counted from forward.

DOCKING Propellers	Good	Wear Down of Stern Bushes	Now Close	Oil Glands	-	Sea Connection	Good
Fastenings	Good	Has Screwshaft been drawn?	Yes	Date of Examination	7-6-57	Has Shaft been changed?	No
Has Shaft now fitted been previously used?	-	Has Shaft now examined/	Yes (New)	Approved oil gland?	-		
MAIN ENGINES (Recip. Steam)				PORT			
1 Cyls., Covers, Pistons & Rods	All Good			STARBOARD			
2 Valves & Gears	All Good						
3 Connecting Rods, Top Ends & Guides	All Good						
4 Crankpins & Bearings	All Good						
5 Journals & Bearings	All Good						
MAIN ENGINE DRIVEN COMPRESSORS							
6 Cyls., Covers, Pistons & Rods				Port and Starboard Boilers 12-6-57			
7 Connecting Rods & Top Ends				Both Good			
8 Crankpins & Bearings				Both Good			
9 Journals & Bearings				Both Good			
10 Coolers & Safety Devices				Both Good			
MAIN ENGINE DRIVEN SERVICE PUMPS							
11 Cyls., Covers, Pistons & Rods				Both Good			
12 Connecting Rods & Top Ends				Both Good			
13 Crankpins & Bearings				Both Good			
14 Journals & Bearings				Both Good			
15 Levers				Both Good			
MAIN ENGINE DRIVEN PUMPS							
16 Cyls., Covers, Pistons & Rods	Good			Both Good			
17 Connecting Rods & Top Ends				Both Good			
18 Crankpins & Bearings				Both Good			
19 Journals & Bearings				Both Good			
20 Levers				Both Good			
MAIN ENGINE DRIVEN PUMPS							
21 Cyls., Covers, Pistons & Rods				Both Good			
22 Connecting Rods & Top Ends				Both Good			
23 Crankpins & Bearings				Both Good			
24 Journals & Bearings				Both Good			
25 Levers				Both Good			
MAIN ENGINE DRIVEN PUMPS							
26 Cyls., Covers, Pistons & Rods				Both Good			
27 Connecting Rods & Top Ends				Both Good			
28 Crankpins & Bearings				Both Good			
29 Journals & Bearings				Both Good			
30 Levers				Both Good			
MAIN ENGINE DRIVEN PUMPS							
31 Cyls., Covers, Pistons & Rods				Both Good			
32 Connecting Rods & Top Ends				Both Good			
33 Crankpins & Bearings				Both Good			
34 Journals & Bearings				Both Good			
35 Levers				Both Good			
MAIN ENGINE DRIVEN PUMPS							
36 Cyls., Covers, Pistons & Rods				Both Good			
37 Connecting Rods & Top Ends				Both Good			
38 Crankpins & Bearings				Both Good			
39 Journals & Bearings				Both Good			
40 Levers				Both Good			
MAIN ENGINE DRIVEN PUMPS							
41 Cyls., Covers, Pistons & Rods				Both Good			
42 Connecting Rods & Top Ends				Both Good			
43 Crankpins & Bearings				Both Good			
44 Journals & Bearings				Both Good			
45 Levers				Both Good			
MAIN ENGINE DRIVEN PUMPS							
46 Cyls., Covers, Pistons & Rods				Both Good			
47 Connecting Rods & Top Ends				Both Good			
48 Crankpins & Bearings				Both Good			
49 Journals & Bearings				Both Good			
50 Levers				Both Good			
MAIN ENGINE DRIVEN PUMPS							
51 Cyls., Covers, Pistons & Rods				Both Good			
52 Connecting Rods & Top Ends				Both Good			
53 Crankpins & Bearings				Both Good			
54 Journals & Bearings				Both Good			
55 Levers				Both Good			
MAIN ENGINE DRIVEN PUMPS							
56 Cyls., Covers, Pistons & Rods				Both Good			
57 Connecting Rods & Top Ends				Both Good			
58 Crankpins & Bearings				Both Good			
59 Journals & Bearings				Both Good			
60 Levers				Both Good			
MAIN ENGINE DRIVEN PUMPS							
61 Cyls., Covers, Pistons & Rods				Both Good			
62 Connecting Rods & Top Ends				Both Good			
63 Crankpins & Bearings				Both Good			
64 Journals & Bearings				Both Good			
65 Levers				Both Good			
MAIN ENGINE DRIVEN PUMPS							
66 Cyls., Covers, Pistons & Rods				Both Good			
67 Connecting Rods & Top Ends				Both Good			
68 Crankpins & Bearings				Both Good			
69 Journals & Bearings				Both Good			
70 Levers				Both Good			
MAIN ENGINE DRIVEN PUMPS							
71 Cyls., Covers, Pistons & Rods				Both Good			
72 Connecting Rods & Top Ends				Both Good			
73 Crankpins & Bearings				Both Good			
74 Journals & Bearings				Both Good			
75 Levers				Both Good			
MAIN ENGINE DRIVEN PUMPS							
76 Cyls., Covers, Pistons & Rods				Both Good			
77 Connecting Rods & Top Ends				Both Good			
78 Crankpins & Bearings				Both Good			
79 Journals & Bearings				Both Good			
80 Levers				Both Good			
MAIN ENGINE DRIVEN PUMPS							
81 Cyls., Covers, Pistons & Rods				Both Good			
82 Connecting Rods & Top Ends				Both Good			
83 Crankpins & Bearings				Both Good			
84 Journals & Bearings				Both Good			
85 Levers				Both Good			
MAIN ENGINE DRIVEN PUMPS							
86 Cyls., Covers, Pistons & Rods				Both Good			
87 Connecting Rods & Top Ends				Both Good			
88 Crankpins & Bearings				Both Good			
89 Journals & Bearings				Both Good			
90 Levers				Both Good			
MAIN ENGINE DRIVEN PUMPS							
91 Cyls., Covers, Pistons & Rods				Both Good			
92 Connecting Rods & Top Ends				Both Good			
93 Crankpins & Bearings				Both Good			
94 Journals & Bearings				Both Good			
95 Levers				Both Good			
MAIN ENGINE DRIVEN PUMPS							
96 Cyls., Covers, Pistons & Rods				Both Good			
97 Connecting Rods & Top Ends				Both Good			
98 Crankpins & Bearings				Both Good			
99 Journals & Bearings				Both Good			
100 Levers				Both Good			

OPINION OF MACHINERY AND RECOMMENDATIONS
 The machinery of this vessel, so far as now seen, is in an efficient conditions and eligible in my opinion to remain as now classed with fresh record Engine Survey 7.57, Main Boiler Survey 7.57, Steam pipe Survey 7.57, Tailshaft Survey (CL) 6.57, Fitted for Oil Fuel 7.57, Flash Point above 150°F and Fitted for Superheated Steam (580°F) 7.57

Date of Committee FRIDAY 23 AUG 1957
 Decision EST 7.57
 TSG 6.57 MBS 7.57 SPS 7.57
 OF 7.57

for J.W. Walker & self.
 J. W. WALKER V. H. LARSEN
 Lloyd's Register Foundation
 001592-001601-0286 1/2

CERTIFICATE WRITTEN.

If certificate is required state where to be sent.

32 Essential Independent Pumps (Identify by position) **G.S. Pump, Good 2 Feed Pumps Good, Ballast Pump, Good**

33 Bilge, Ballast & Oil Fuel Suction Lines, Fittings & Controls **Good**

34 Have the remaining Piping Arrangements & Fittings in the machinery space been examined as considered necessary? **Yes**

35 Fresh Water Coolers **Good** 36 Lub. Oil Coolers **Good** 37 Heaters (state service) **Yes**

38 Independent Air Compressors, Coolers & Safety Devices **Good**

39 Air Receivers & Safety devices—Main **Good** 40 Auxiliary **Good**

41 Oil Fuel Tanks (Not forming part of hull structure) **Good**

42 Evaporators **Good** 43 Have Evaporator Safety Valves been tested under steam? **Yes, 14Lbs.Sq."**

44 Steering Machinery **Good** 45 Windlass **Good** 46 Fire Extinguishing Arrangements **Good**

AUXILIARY ENGINES (Identify by position) **Inboard and Outboard Generator Engines Both Good.**

ELECTRICAL EQUIPMENT		AUXILIARY EQUIPMENT	
PROPULSION	PORT	STARBOARD	
Generators			Generators & Governors Both Good
Exciters			Motors Good
Air Coolers			Switchboards & Fittings Good
Motors			Circuit Breakers Good
Air Coolers			Cables Good
Control Gear, Cables, etc.			Insulation Resistance Good
Insulation Resistance			Steering Gear Generators and Motors Good
Insulating Oil Test			Navigation Light Indicators Good
Overspeed Governors			
Magnetic Couplings			
Air Gap			

BOILERS OPENED UP & EXAMINED (Identify by position and state latest date of internal examination of each boiler)

MAIN **Port and Starboard Boilers 12-6-57** AUXILIARY, DONKEY or PRESS **Good**

Superheaters **Now Fitted**

Safety Valves **Good**

Mountings, Doors & Fastenings **Good**

Safety Valves Adjusted to Sat. **220Lbs.Sq."** Spt. **225Lbs.Sq."**

Boiler Securing Arrangements **Good**

Were Oil-Burning System & Remote Controls examined working in accordance with Rules? **Yes**

Have Saturated Steam Pipes in cylindrical boiler smoke boxes been examined as required by Rules? **Good**

EXAMINATION & TESTING OF STEAM PIPES (State material)

Main **Steel (Tested) Good** Auxiliary (over 3 in. bore) **Good**

Were Copper Pipes annealed? **Good** Have Saturated Pipes in cylindrical boiler smoke boxes been tested? **Good**

PARTICULARS OF DEFECTS & REPAIRS, ETC. (Damage repairs should be detailed separate from wear and tear repairs; state what action has been taken regarding items which are subjects of class)

Tailshaft liner found very thin new liner now fitted.

Shaft examined without liner and after fitting liner and found satisfactory.

Attached pumps; Renewed rams.

Ballast Pump; Renewed buckets and liners.

Outboard Feed Pump; Renewed bucket and liner.

Main Condenser; Renewed water box division bar.

Circulating Pump; Renewed impeller shaft.

Port and Starboard Boilers; All plain and stay tubes renewed.

Port Boiler renewed 3 bridle stays.

Starboard Boiler, renewed 2 bridle stays.

Boilers afterwards tested under hydraulic pressure and found satisfactory.

OIL FUEL CONVERSION:-

Now carried out in accordance with the Society's Rules, Approved Plans and the Secretary's Letters.

All furnace fronts modified for oil burning equipment.

Continued on page 3.....

Survey fees	E.S.	£22 - 0 - 0
	M.B.S.	£18 - 0 - 0
	T.S.	£5 - 0 - 0
	Elect. S. Survey	£10 - 0 - 0
O.F. CONN.		£25 - 0 - 0
Spht. Conn.		£10 - 0 - 0
Repair Fee.		£15 - 0 - 0

Date when A/c rendered **30 JUL 1957**

S.S. "BARON HERRIES" Page 3 Continued.

OIL FUEL CONVERSION:- (Continued).

Duplex Oil Burning unit installed in Boiler Room (Forward Centre). Certificate attached.

Oil Fuel Transfer Pump installed in Boiler Room (Forward Port). Certificate attached.

An observation tank suitably lighted has been fitted in Engine Room (Port).

Hand lighting-up set supplied.

Steam valves to oil fuel unit, transfer pump, and steam smothering fitted with extended spindles to casing top.

Bunker and settling tanks fitted with "instant" valves operated from casing top.

Hot oil discharges to each boiler controlled by quick closing valve.

Oil Fuel discharge lines tested to 450Lbs.Sq."

Oil fuel filling lines tested to 80Lbs.Sq."

Funnel damper removed.

Oily water separator (Certificate attached) installed in port 'tween deck, accessible from Engine Room.

Drip trays fitted to Boiler Room platform below each burner.

Fire Extinguisher Equipment:- 1 - 10 gall. and 4 - 2 gall foam extinguishers in Boiler Room, 4 - 2 gall foam in Engine Room, and 1 quart tetrachloride extinguisher at Switch Board.

Fire main supplied by the ballast and general service pumps and attached main engine pump.

2 hydrants 1 port and 1 starboard with 30ft canvas hose and spray-jet nozzles in Engine Room.

2 - sand bin 12 cu.ft. capacity in boiler room.

Steam smothering pipes below pumps and furnace fronts.

A diesel driven pump, installed in steering flat, with sea suction operated by extended spindle.

CONVERSION TO SUPERHEATED STEAM:-

Carried out in accordance with the Society's Rules and Approved Plans and Secretary's Letters.

All new steam pipes examined and hydraulically tested 450Lbs.Sq."

All cast iron valves and fittings removed, and replaced with cast steel valves and fittings all tested to 550Lbs.Sq."

The HP cylinder liner renewed, with modifications for mechanical lubrication.

HP piston rod skimmed and modified stuffing box fitted.

Certificates attached.

On completion of all conversions and repairs, the boilers were examined under steam and Accumulation tests carried out with satisfactory results.

REVISED DATA FOR REGISTER BOOK:-

Total Heating Surface of Boilers = 3740 Sq.Ft.

Total Heating Surface of Superheaters = 1620 Sq.Ft.

Total Heating Surface for Register Book = 5360 Sq.Ft.

I.H.P. as per Superintendent = 1500

MN = 270

