

Rpt. 9

Date of writing report 23. 6. 59.

Received London 8 JUL 1959

Port Liverpool.

No. 152061

Survey held at Liverpool.

No. of visits 7

First date 2-6-59

Last date 19. 6. 59.

## REPORT OF PERIODICAL SURVEYS &amp; REPAIRS OF MACHINERY

No. in R.B. 64033 S.S. "HILARY"  
Name MEVX  
Owners Booth S.S. Co. Ltd. Managers ---  
Engines made 1931 By Cammell Laird & Co. Ltd. Type T 3Cy. & LP turb. with DR gearing & hydraulic coupling.  
No. of Main Engines 1 No. of Screws 1  
No. of Main Boilers 4SB W.P. 230lb Spt. (1SB230lb Spt.)  
No. of Aux./Donkey Boilers - W.P. -9  
Surveyed Afloat or in Dry Dock Afloat.  
Nature of Survey M.B.S. & S.R.L. Repairs.  
Was Damage Report issued? No. Int. Cert.? Yes.  
Last Report (For Head Office only)

Gross tons 7392 Date of build 1931 8  
Port of Registry Liverpool  
Survey & Special Notations as per Register Book

Machinery	
*LMC	4,56
BS. M	6,58
TS. CL	3,56
S.P.S.	4,56

with freeboard

OF2/49

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 ..... Wear Down of Stern Bushes ..... Oil Glands ..... Sea Connections .....  
Fastenings ..... Has Screwshaft Tubeshaft been drawn? ..... Date of Examination ..... Has Shaft been changed? .....  
Has Shaft now fitted been previously used? ..... Has Shaft now examined/fitted a continuous liner? ..... Approved oil gland? .....  
MAIN ENGINES (Recip. Steam or I.C.) PORT STARBOARD  
1 Cyls., Covers, Pistons & Rods .....  
2 Valves & Gears .....  
3 Connecting Rods, Top Ends & Guides { Side .....  
Centre .....  
4 Crankpins & Bearings { Side .....  
Centre .....  
5 Journals & Bearings .....  
MAIN ENGINE DRIVEN AIR COMPRESSORS  
6 Cyls., Covers, Pistons & Rods .....  
7 Connecting Rods & Top Ends .....  
8 Crankpins & Bearings .....  
9 Journals & Bearings .....  
10 Coolers & Safety Devices .....  
MAIN ENGINE DRIVEN SCAVENGE PUMPS  
11 Cyls., Covers, Pistons & Rods .....  
12 Connecting Rods & Top Ends .....  
13 Crankpins & Bearings .....  
14 Journals & Bearings .....  
15 Levers .....  
16 SCAVENGE BLOWERS .....  
17 SUPERCHARGERS .....  
MAIN TURBINES  
18 Casings, Rotors, Blading, Bearings & Thrusts .....  
19 EXHAUST STEAM TURBINES (WITH RECIP. ENGINES) .....  
20 STEAM COMPRESSORS .....  
21 CLUTCHES & HYDRAULIC COUPLINGS .....  
22 REDUCTION GEARING .....  
23 THRUST BLOCKS, SHAFTS & BEARINGS .....  
24 INTERMEDIATE SHAFTS & BEARINGS .....  
25 HOLDING DOWN BOLTS & CHOCKS .....  
26 CONDENSERS (MAIN & AUX.) .....  
27 STEAM RE-HEATERS .....  
28 DE-SUPERHEATERS .....  
29 STOP & MANGEUVRING VALVES .....  
30 MAIN ENGINE DRIVEN PUMPS .....  
31 CRANKCASE DOORS & EXPLOSION RELIEF DEVICES .....  
Have Main Engines been tested working and manœuvring? .....  
OPINION OF MACHINERY AND RECOMMENDATIONS The machinery of this vessel so far as now seen is in my opinion eligible to remain as classed with fresh record of M.B.S. 6.59 now subject to as previously recommended the port aft main boiler not being used until repaired and the exhaust turbine thrust collar being renewed at the next E.S.

S.R.L. Appendix. Main Engine L.P. cylinder cover Metalock repaired.

Date of Committee LIVERPOOL 7 JUL 1959  
Decision Deferred to T.S. MBS 6.59 Subject

40m,4,57. T. (MADE AND PRINTED IN ENGLAND.)

Noted  
for  
Header

Engineer Surveyor to Lloyd's Register of Shipping

Lloyd's Register  
Foundation

005307-005310-0040 12



of Liverpool.

on the S.S. ~~MS~~ "HILARY"

Continued.

Three main wheel - stub shaft coupling bolts found fractured, temporary repairs effected for the remainder of the voyage to Liverpool.

Now Done.

The stub shaft removed, all components examined i.e. M.E. quill shaft and cone also main wheel drive coupling. The alignment of the whole installation checked, found or placed in good order. The coupling bolts all renewed in test material and upon completion of repairs a satisfactory engine trial witnessed.

P. H. L. L.

- 32 Essential Independent Pumps (Identify by position) .....
- 33 Bilge, Ballast & Oil Fuel Suction Lines, Fittings & Controls .....
- 34 Have the remaining Piping Arrangements & Fittings in the machinery space been examined as considered necessary? .....
- 35 Fresh Water Coolers ..... 36 Lub. Oil Coolers ..... 37 Heaters (state service) .....
- 38 Independent Air Compressors, Coolers & Safety Devices .....
- 39 Air Receivers & Safety devices—Main ..... 40 Auxiliary .....
- 41 Oil Fuel Tanks (Not forming part of hull structure) .....
- 42 Evaporators ..... 43 Have Evaporator Safety Valves been tested under steam? .....
- 44 Steering Machinery ..... 45 Windlass ..... 46 Fire Extinguishing Arrangements .....

AUXILIARY ENGINES (Identify by position) .....

PROPULSION	PORT	STARBOARD	ELECTRICAL EQUIPMENT	AUXILIARY EQUIPMENT
a Generators .....			1 Generators & Governors .....	
b Exciters .....			m Motors .....	
c Air Coolers .....			n Switchboards & Fittings .....	
d Motors .....			o Circuit Breakers .....	
e Air Coolers .....			p Cables .....	
f Control Gear, Cables, etc. ....			q Insulation Resistance .....	
g Insulation Resistance .....			r Steering Gear Generators and Motors .....	
h Insulating Oil Test .....			s Navigation Light Indicators .....	
i Overspeed Governors .....				
j Magnetic Couplings .....				
k Air Gap .....				

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

MAIN	Aft Starb. 12.6.59	Port 16.6.59.	AUXILIARY, DONKEY or PRESS .....
	Centre Aft, & Starb. Ford. 9.6.59.		
Superheaters .....	All - Good.		
Safety Valves .....	All - Good.		
Mountings, Doors & Fastenings .....	All - Good.		
Safety Valves Adjusted to	Sat. All - 230 lb / sq in.		
	Spt. All - 230 lb / sq in.		
Boiler Securing Arrangements .....	All - Good.		
Water Pumps .....			
Steam Pumps .....			
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.	Funnel Good.	

EXAMINATION & TESTING OF STEAM PIPES (State material)

Main .....	Auxiliary (over 3 in. bore) .....
Were Copper Pipes annealed? .....	Have Saturated Pipes in cylindrical boiler smoke boxes been tested? .....

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)

- S.R.L. (1) Port aft main boiler not to be used until repaired. No repairs effected, the boiler remains out of commission.
- (2) Repairs to L.P. cylinder cover to be examined by 6.59.
- The cover removed and examined at this time. The Metalock repair remains sound & tight and the owners representative stated that no trouble had been experienced with the above during the previous 12 months. It is therefore submitted that the item be deleted from the S.R.L. and be transferred to the Appendix to read "Main Engine L.P. cover Metalock repaired".
3. Exhaust turbine thrust collar to be re-examined, no apparent extension to the previous fractures but the Owners representative stated that they propose to fit a collar at the next E.S. 4.60. In the above circumstances it is submitted that the S.R.L. item be amended to "Exhaust turbine thrust collar to renew at Engine Special Survey, considered efficient meantime.
- The owners superintendent stated that prior to arrival at Lisbon the previous voyage, excessive vibration in way of the Bauer-Wach turbine main wheel drive to stub shaft necessitated a reduction in speed and subsequent examination at Lisbon.

Continued sheet 2.

S.R.L. Survey fees	£ 5-5-0
M.B.S. Fee	£ 40-0-0
Repair	£ 5-5-0
Expenses...	£ 1-1-0
Special etc	£ 4-4-0

Date when A/c rendered .....



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