

Rpt. 9

Date of writing report 13.1.1958

Survey held at Genoa

Received London

No. of visits 23

Port of GENOA

First date 26.9.57

Last date 20.12.57

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

No. in R.E. 19538 S.S. Name ~~XXV~~ "MARE ADRIACUM"

Owners Fratelli d'Amico

Managers

Gross tons 20451 Date of build 3/1954

Engines made 1954 By General Electric Co. - Lynn

Port of Registry Trieste

No. of Main Engines 2 No. of Screws 1

Type 2 steam turbines

No. of Main Boilers 2 WTB W.P. 650 lbs

Records of Survey &amp; Special Notations as per Register Book

No. of Aux./Donkey Boilers - W.P. -

Surveyed Afloat or in Dry Dock both

Nature of Survey ES, MBS, SGS, SPS, TS (CL), Rprs

Was Damage Report issued? - Int. Cert.? yes

Last Report (For Head Office only)

Hull

Machinery

+100 A1 carrying petroleum  
in bulk.

+ LMC N 3/54

Dkg 9/56

BS WT 3/56

nsg 3/54

TS CL 3/54

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~~ (renewed) Wear Down of Stern Bushes 1.5 mm

Fastenings good Has Screwshafts been drawn? yes Date of Examination 18.12.57 Sea Connections good

Has Shaft now fitted been previously used? - Has Shaft now examined/checked continuous liner? yes Has Shaft been changed? no

MAIN ENGINES ~~Good~~ Steam ~~OK~~ ~~PORT~~ ~~STARBOARD~~

1 Cyls., Covers, Pistons &amp; Rods

2 Valves &amp; Gears

3 Connecting Rods, Top Ends & Guides Side  
Centre4 Crankpins & Bearings Side  
Centre

5 Journals &amp; Bearings

## MAIN ENGINE DRIVEN AIR COMPRESSORS

6 Cyls., Covers, Pistons &amp; Rods

7 Connecting Rods &amp; Top Ends

8 Crankpins &amp; Bearings

9 Journals &amp; Bearings

10 Coolers &amp; Safety Devices

## MAIN ENGINE DRIVEN SCAVENGE PUMPS

11 Cyls., Covers, Pistons &amp; Rods

12 Connecting Rods &amp; Top Ends

13 Crankpins &amp; Bearings

14 Journals &amp; Bearings

15 Levers

16 SCAVENGE BLOWERS

17 SUPERCHARGERS

## MAIN TURBINES

18 Casings, Rotors, Blading, Bearings &amp; Thrusts HP and LP = good

19 EXHAUST STEAM TURBINES (WITH REPT. ENGINES)

20 STEAM COMPRESSORS

21 CLUTCHES &amp; HYDRAULIC COUPLINGS

22 REDUCTION GEARING good

23 THRUST BLOCKS, SHAFTS &amp; BEARINGS good

24 INTERMEDIATE SHAFTS &amp; BEARINGS good

25 HOLDING DOWN BOLTS &amp; CHOCKS good

26 CONDENSERS (MAIN &amp; AUX.) good (aux. tested)

27 STEAM RE-HEATERS

28 DE-SUPERHEATERS

29 STOP &amp; MANOEUVRING VALVES good

30 MAIN ENGINE DRIVEN PUMPS

31 FRANKCISE DOORS &amp; EXPLOSION RELIEF DEVICES

Have Main Engines been tested working and manœuvring? yes

OPINION OF MACHINERY AND RECOMMENDATIONS The machinery of this vessel, so far as now surveyed, is in efficient condition and eligible in my opinion to remain as now classed with the fresh records of ES 12.57, MBS 12.57, SGS 12.57, SPS 12.57 and TS (CL) 12.57

Date of Committee TUESDAY 20 MAY 1958

Decision ES 12.57 (Delete Time Endur)

Printed in England

TS 12.57 MBS 12.57 SGS 12.57 SPS 12.57

CERTIFICATE WRITTEN

Noted for Reader

S. Follo & W. Filmer Lee  
Engineer Surveyor to Lloyd's Register of ShippingLloyd's Register  
Foundation

013186-013191-0104/2

If certificate is required state where to be sent

Both turbogenerator condenser S.W. circ. pumps- Both turbogen. condenser extraction pumps- Bilge (in E.R. & in fwd pump room)- Both fire pumps- Both evaporator feed water pumps- Distiller feed pump- Both hotwell drain pumps- Both main S.W. circulating pumps- Both main extraction pumps- Both Essential Independent Pumps (Identify by position)- Both L.P. steam generator feed pumps- Oil engine and aux. turbofeed pumps- Butterworth turbopump- Both L.P. steam generator feed pumps- Oil engine set cooling pump- O.F. transfer pumps- Both oil fuel pressure pumps- Both main L.O. pumps - 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 - in order  
 35 Fresh Water Coolers (Generator set) = good Lub. Oil Coolers (both) good 37 Heaters (state service) O.F. & drain cooler (1st test)  
 38 Independent Air Compressors, Coolers & Safety Devices for combustion control & ship services = good  
 39 Air Compressors & Safety Devices - good 40 Auxiliary good  
 41 On the tanks & in the bilge space - good  
 42 Evaporators good 43 Have Evaporator Safety Valves been tested under steam? yes  
 44 Steering Machinery good 45 Windlass good 46 Fire Extinguishing Arrangements in order

AUXILIARY ENGINES (Identify by position) Both turbogenerator sets = good  
 Oil engine generator set = good

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

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

MAIN Port and Stbd = good  
 Exd. 23.10.1957

Superheaters good  
 Safety Valves good  
 Mountings, Doors & Fastenings good  
 Safety Valves Adjusted to Sat. 660 lbs/sq"  
 Spt. 624 lbs/sq"

Boiler Securing Arrangements good  
 Main Economisers good  
 Steam Heated Steam Generators good (24.10.57) Steam Generator Safety Valves Adjusted to 135 lbs/sq"  
 Were Oil Burning System & Remote Controls examined working in accordance with Rules? yes, in order  
 Exhaust Gas Heated Economisers  
 Funnel efficient

EXAMINATION & TESTING OF STEAM PIPES (State material)

Main steel S.D. = good

Were Copper Pipes examined?

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)

Wear and Tear Repairs:  
 In dry dock - The original four bladed solid bronze propeller, at the Owners desire has been removed and replaced by a new five bladed solid bronze propeller. The fitting of this new five bladed propeller on the tailshaft cone has been tried and made to the Surveyors satisfaction.

This new propeller is stamped thus: LLOYD'S ROT  
 No 7323

AVH 29.1.1957

and a copy of the casting certificate issued by the Rotterdam Surveyor is herewith attached.

Screwshaft examined and found: cone magnetically tested and found in good conditions (forward corners of keyway, sled running type, rounded Bronze liner surface in way of both stern tube bearings found deeply eroded and irregularly worn out. On account of same the screwshaft has been removed to workshop and satisfactorily skimmed out.

(Contd. on sheet no. 2)

Survey fees E.S. Lk 180.000  
 M.B.S. & S.S. Lk 57.750  
 T.S. Lk 12.000  
 W.T. R.R.S. Lk 80.000  
 Damage fee Lk 60.000  
 ELEC. EQUIPMENT Lk 60.000  
 Expenses... (See Rpt. 8)  
 SURVAY FEE Lk 7.000

Date when A/c rendered 22/1/58

Rpt. 9a

Port of GENOA

Continuation of Report No. 22976 dated 13.1.1958

on the

S/S "MARE ADRIACUM" (Sheet no. 2)

Screwshaft examined again on completion before being fitted back in place and found to remain in good and efficient conditions.

The after bronze bush of stern tube found circumferentially cracked at about 400 mm from its end has been removed and a new bronze bush with lignum vitae satisfactorily fitted.

Before the fitting in place of the new bush, the landing surface in way of tube has been carefully examined, lightly bored out and found sound.

Forward bush lignum vitae renewed on account of excessive wear down and to suit the new diameter of screwshaft.

The gland chamber of the stern tube found deeply corroded in way of the bottom ring of chamber has now been bored out and a new bronze gland chamber satisfactorily bolted on tube.

All the above repairs have been examined on completion and found satisfactory.

Turbogenerators= Interstage labirinths, carbon packings and oil flinger discs renewed.

The two L.O. coolers attached to the fwd and aft turbo generators replaced with two of a larger capacity.

Coolers identified: LLOYDS TEST A.A. GEN 25.7.57 PPK8

BOILERS Stbd main: Superheater stop valve renewed LLOYDS TEST GV 957.

Port and stbd main boiler economiser tubes renewed at Owners request. Economisers tested on completion and found satisfactory.

LP main turbine:

The 4th stage rotor blading found with shrouding partly missing and several blades broken.

The 4th stage rotor blading now renewed with blades of slightly different design together with corresponding casing diaphragms and blades.

The rotor was examined in the balancing machine after repairs and balance found satisfactory.

*[Handwritten signature]*

