

If certificate is required state where to be sent.

9. 59259.
32 Essential Independent Pumps (Identify by position) All - Now Good. Both feed, both O.F. pressure pumps
general service, transfer, fresh water; circulating pump and its engine.

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

38 Independent Air Compressors, Coolers & Safety Devices

37 Heaters (state service) O.F. and feed

39 Air Receivers & Safety devices—Main

40 Auxiliary

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

42 Evaporators Now Good

43 Have Evaporator Safety Valves been tested under steam? Yes

44 Steering Machinery

45 Windlass

46 Fire Extinguishing Arrangements Good

AUXILIARY ENGINES (Identify by position)

Both fan engines

Both dynamo engines.

PROPULSION

PORT

STARBOARD

ELECTRICAL EQUIPMENT

AUXILIARY EQUIPMENT

a Generators

b Exciters

c Air Coolers

d Motors

e Air Coolers

f Control Gear, Cables, etc.

g Insulation Resistance

h Insulating Oil Test

i Overspeed Governors

j Magnetic Couplings

k Air Gap

1 Generators & Governors Good except go

steam dyn

m Motors

n Switchboards & Fittings Good

o Circuit Breakers Good

p Cables Now Good

q Insulation Resistance Good

r Steering Gear Generators and Motors

s Navigation Light Indicators Good

BOILERS OPENED UP & EXAMINED

(Identify by position and state latest date of internal examination of each boiler)

MAIN All - now good

Centres 5.55, Port & Starboard 22.5.55.

Superheaters Now Good

Safety Valves Good

Mountings, Doors & Fastenings Now Good

Safety Valves Adjusted to (Sat. 220 lbs. per sq. in.

(Spt. 220 lbs. per sq. in.

Boiler Securing Arrangements Good

Main Economisers

Steam-Heated-Steam Generators

Exhaust Gas Heated Economisers

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? Yes

Forced Circulating Pumps Yes

Funnel Good

EXAMINATION & TESTING OF STEAM PIPES

(State material)

Main Selected lengths - Steel - Now Good

Were Copper Pipes annealed?

Auxiliary (over 3 in. bore) Selected lengths - Steel

Have Saturated Pipes in cylindrical boiler smoke boxes been tested?

PARTICULARS OF DEFECTS & REPAIRS, ETC.

(are subjects of class)

(Damage repairs should be detailed separate from wear and tear repairs; state what action has been taken)

Damage to Machinery stated to have been sustained between November 1954 and February 1955. For further details please refer to deferred reports.

Now done:-

Main engine M.P. piston rod, previously temporarily repaired now renewed.

Main engine Nos. 4 & 5 lower half main bearings previously broken and repaired now renewed.

Crank shaft and M.P. engines realigned after renewals and engines found under working conditions.

To complete the LMC. the dynamo governors to be placed in good condition the valves, cocks and strainers of the pumping arrangement and the room oil fuel settling tanks remain to be examined.

(Please see

Survey fees

For fees see LR/HI attached slip.

Damage fee

Expenses...

Date when A/c rendered

Continuation of Report No. 59259 dated 10 June 1955

on the

"LETIZIA MONTANARI" ex "BLOOMFIELD".

Examination for postponement of Special Survey until the end of June 1955.

A general examination of the boilers and machinery of this vessel revealed generally poor condition which necessitated a considerable amount of repairs to the machinery in efficient condition.

Parts now dealt with have been placed in good order and in compliance with Makers' Representatives request it is submitted that they may be credited for special LMC. survey.

Vessel placed in dry dock. Propeller, screwshaft, (drawn) stern tube, stern bush and all sea valves and their fastenings examined.

lined:- All cylinders and pistons, poppet and slide valves and chests, rods, crossheads, guides, Nos 3, 4 & 5 crank journals and main bearings, all crankpins and bottom end bearings, eccentric sheaves and straps, thrust shaft and bearings, intermediate shaft, all attached and independent pumps, main and auxiliary condensers (tested), both fan engines, both dynamos, electrical equipment and steam pipes (tested), feed and O.F. heaters (tested).

Boilers examined internally and externally with all mountings, superheaters, safety valves, manholes and their fastenings and subsequently examined under steam safety valves adjusted.

Fuel and steam smothering installations and their remote control gear examined. Main and auxiliary machinery and boilers examined during basin trials on completion repairs and after minor adjustments left in good running order.

Lower half sternbush renewed.

Low injection sea valve casting wasted and holed now renewed in Mekanite Cast Iron (tested) General service pump sea suction valve cover renewed.

Main discharge valve (sluice) guide bars built up with welding.

Main engine M.P. piston rod renewed. Piston and crosshead bored in way of cones

and crosshead pins skimmed and bearings machined to suit.

Small junk ring bolts in M.P. piston renewed for slackness.

M.P. guide bars checked for alignment.

Main engine L.P. piston junk ring cracked between bolt holes now renewed.

M.P. slide valve fitted with side strips on account of excessive side clearance.

Guide bracket for L.P. valve spindle realigned.

L.P. and M.P. poppet valves, camshafts, bearings and spindles removed from vessel and sent to Makers for complete overhaul.

Cam profiles built up as necessary and hardened, rollers, pins and bearings renewed,

guide bushes rebored and spindles renewed and all parts reassembled and settings

checked by Makers Representative on completion.

L.P. ahead eccentric sheave rekeyed.

L.P. crankpin bearing remetalled and remaining bottom end bearings dressed up as necessary.

M.P. bottom end bolt nuts renewed for slackness.

M.P. crankshaft lifted for renewal of broken Nos. 4 & 5 main bearing housings.

10th June 1955"LETIZIA MONTANARI" ex "BLOOMFIELD".

(Contd).

t refitted and satisfactorily lined up. Nos. 4 & 5 lower half main bearings
wed.

engine alignment checked and made good.

lock repair to engine bed plate in way of No.5 bearing carefully examined
remains efficient.

broken holding down belt renewed, remainder examined and hardened up as
ssary.

main engine relief valves cleaned and overhauled.

engine attached air pump red and bilge and sanitary pump rams skimmed and
ashed.

ge pump suction valve chest holed now renewed.

itary pump air vessel broken now renewed.

ward feed pump rods skimmed and rebushed, piston and bucket rings renewed,
ves and seats machined, a reconditioned shuttle valve fitted, suction manifold
ves and seats machined and pump thoroughly overhauled.

er feed pump bucket red and water end cover renewed, suction manifold valves
seats machined and pump thoroughly overhauled.

last pump valve spindles renewed, piston and bucket rings renewed, bridle gear
s and bushes renewed as necessary and new suction and delivery valves fitted
necessary.

eral service pump piston and bucket rings renewed, piston rods renewed and
dle gear overhauled with new pins and bushes as necessary. Bucket rods skimmed
rebushed.

ward oil fuel pressure pump bucket red renewed and a reconditioned shuttle
ve fitted. Heater tested.

er oil fuel pressure pump steam and oil cylinders bored out and new rings
ted. Combined piston and buck^{et} red renewed and a reconditioned shuttle valve
ted. Heater tested.

culating pump engine crank shaft machined, bearings remetalled, crosshead
a renewed. Piston and valve rods skimmed and rebushed, piston and bucket rings
newed.

eller shaft skimmed and lignum vitae bearings renewed and sealing rings
ned up.

apling faces trued up. Engine and pump reassembled and lined up.

ansfer pump completely overhauled and adjusted.

esh water pump piston and bucket rings renewed.

In condenser water box renewed, about 110 defective tubes renewed and condenser
greased and tested.

iliary condenser - about 25 defective tubes renewed and condenser tested.

ct dynamo engine cylinder liner renewed, piston, rod and rings renewed.

shaft machined and bearings remetalled.

end pin and its bearing renewed, valve spindle skimmed and rebushed.

arboard dynamo engine crankshaft machined and bearings remetalled.

centric strap, piston rod and valve spindle and piston rings renewed.

ward fan engine cylinder and valve chest bored out, piston, rings and piston

lve renewed.

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"LETIZIA MONTANARI" ex "BLOOMFIELD".

(contd.).

fan engine entablature renewed (cracked). Crankshaft machined and bearings lapped. Steam cylinder and valve chest bored out and new piston, rings and valve fitted. Piston rod skimmed and rebushed. Evaporator door holed new satisfactorily patched, shell scaled internally and externally, tested hydraulically, all valves overhauled, blow down cock renewed. Main valve adjusted under steam and evaporator relagged. Superheaters tested and all valves overhauled. Number of electric circuits rewired or repaired as necessary. Starboard dynamo armature overhauled, commutator skimmed and mica segments undercut. Search lights for lifeboats fitted at this time. Number of steam pipes removed and tested - several leaking ^{at} flanges, now welded internally and externally and retested and lagged. Main and exhaust valves to all auxiliary machines overhauled and ground in with new seats and lids supplied and fitted as necessary. Considerable number of main and auxiliary steam stop valves overhauled, ground in with new seats and lids fitted as necessary throughout the vessel.

Port Boiler - All three furnaces badly distorted, previously jacked and ringed, renewed. About two hundred and fifty plain tubes renewed for leakage. Fifty combustion chamber stays necked or corroded, renewed. Centre combustion chamber backplate saucered in way of margin row stays built up with welding on fire side and dressed up. Main stop valve seat and main check valve lid renewed. Internal feed pipes renewed.

Centre Boiler. All three furnaces renewed for distortion. About Two hundred and sixty plain tubes and forty combustion chamber stays renewed. Three stay tubes renewed. Main stop valve seat, blow down valve lid, main check valve lid and internal feed pipes renewed.

Starboard Boiler. All three furnaces renewed for distortion. About two hundred and fifty plain tubes and sixty five combustion chamber stays, ten stay tubes renewed. Rivets removed locally from port and starboard combustion chamber wrapper plates, plates in way built up at rivet holes and plate edges and rivets renewed. Four longitudinal stays between front end plate and port and starboard wing tube plates necked, now renewed. Main and auxiliary check valve lids, main stop valve seat lid and spindle and internal feed pipes renewed.

Superheaters - All elements removed from boilers and tested. Ten burned and distorted elements now renewed.

All boilers hydraulically tested on completion of repairs and safety and superheater safety valves adjusted.

Wire and trip release gear for fuel tank valves made workable.

A number of feed suction, bilge and wash deck pipes throughout the engine room renewed. All lagging removed for access to repairs afterwards replaced with new material.

Other minor repairs effected.

"LETIZIA MONTANARI" ex "BLOOMFIELD"

vessel is now to proceed to Italy where it is stated she is to be converted carriage of general cargo and the completion of the LMC.

engine bed plate Metaleck repairs in way of No.5 main bearing examined remains efficient.

is recommended that this repair be again examined before the end of June 1956.

M.P. piston rod and Nos. 4 & 5 main bearings having been renewed at this time,

is submitted that these items may now be deleted from S.R.L.

J. V. Naylor

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