

21 JUN 1960

Rpt. 9

Date of writing report 11.5.60

Received London

Port Piraeus

No. 8433

Survey held at Piraeus, Perama

No. of visits 20

First date 5.7.57

Last date 7.3.60

## REPORT OF PERIODICAL SURVEYS & REPAIRS OF MACHINERY

No. in R.B. 00453 Name S.S. "AGHIOS NICHOLAOS"

Gross tons 160 Date of build 1924-11

Owners Loucas Matsas

Managers

Port of Registry Piraeus

Engines made Shl. By J.P.Rennoldson & Sons Ltd.

Type Oil Engine 6 Cylinders

No. of Main Engines 1 No. of Screws 1

Records of Survey & Special Notations as per Register Book

No. of Main Boilers 1SB W.P. 180 lbs.

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

Surveyed Afloat or in Dry Dock Both

Nature of Survey Fitting NE, ES, DS, TS, Conversion O.F.

Was Damage Report issued? No. Int. Cert.? Yes.

Last Report (For Head Office only)

Hull		Machinery	
+100A1		LMC	
tug		ES	6,51
SS	6,51	MBS	6,57
(Dr)	5,46	TS	1,57
DS	5,55		
Laid up - Surveys overdue 6,55			

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 Close fit Oil Glands Good. Sea Connections Good.

Fastenings Good. Has Screwshaft Tubeshaft been drawn? Yes. Date of Examination 10.12.57 Has Shaft been changed?

Has Shaft now fitted been previously used? Has Shaft now examined/† a continuous liner? Approved oil gland?

MAIN ENGINES (Recip. Steam or I.C.)

PORT

STARBOARD

1 Cyls., Covers, Pistons & Rods Nos.1,2,3,4,5,6 Good.

2 Valves & Gears Nos.1,2,3,4,5,6 Good.

3 Connecting Rods, Top Ends & Guides SXX  
Centre Nos.1,2,3,4,5,6 Good.

4 Crankpins & Bearings SXX  
Centre Nos.1,2,3,4,5,6 Good.

5 Journals & Bearings All Good.

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 Good.

12 Connecting Rods & Top Ends Good.

13 Crankpins & Bearings Good.

14 Journals & Bearings Good.

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 Good.

24 INTERMEDIATE SHAFTS & BEARINGS Good.

25 HOLDING DOWN BOLTS & CHOCKS Good.

26 CONDENSERS (MAIN & AUX.) -

27 STEAM RE-HEATERS -

28 DE-SUPERHEATERS -

29 STOP & MANOEUVRING VALVES Good.

30 MAIN ENGINE DRIVEN PUMPS L.O. & Bilge & C.W. Pumps

31 CRANKCASE DOORS & EXPLOSION RELIEF DEVICES

Have Main Engines been tested working and manoeuvring? Yes.

OPINION OF MACHINERY AND RECOMMENDATIONS The Machinery of this vessel is eligibel in my opinion to remain as now classed in the Register with fresh record of LMC ES 3,60NE, T.S.(CL) 12,57./ subject to torsional vibration characteristics being submitted and approved. & notation of "Fitted for Oil Fuel 3,60 FP above 150° F".

Date of Committee

Decision

TUESDAY 14 MAR 1960

See minute in Rpt 8.



32 Essential Independent Pumps (Identify by position) SS:- Lub.Oil Pump; F.O.Transfer Pump; Bilge Pump; PS:- Fire Pump; Sanitary Pump; FW 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? Good.

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

38 Independent Air Compressors, Coolers & Safety Devices P. & S. Fwd. Good.

39 Air Receivers & Safety devices - Main P. & S. Up & Down(4) Good.

40 Oil Fuel Tanks (Not forming part of hull structure) 41 Have Evaporator Safety Valves been tested under steam? 42 Auxiliary

43 Evaporators Good. 44 Windlass Good. 45 Fire Extinguishing Arrangements

46 Steering Machinery Good. P.S.F.Diesel Gen., SS Fwd. Diesel Gen. Good.

AUXILIARY ENGINES (Identify by position)

ELECTRICAL EQUIPMENT		AUXILIARY EQUIPMENT	
PORT	STARBOARD	PORT	STARBOARD
PROPULSION		Generators & Governors	Good.
a Generators		Motors	Good.
b Exciters		Switchboards & Fittings	Good.
c Air Coolers		Circuit Breakers	Good.
d Motors		Cables	Good.
e Air Coolers		Insulation Resistance	Good.
f Control Gear, Cables, etc.		Steering Gear Generators and Motors	Good.
g Insulation Resistance		Navigation Light Indicators	Good.
h Insulating Oil Test			
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

Superheaters

Safety Valves

Mountings, Doors & Fastenings

Safety Valves Adjusted to Sat. Spt.

Boiler Securing Arrangements

Main Economisers

Steam Generator Safety Valves Adjusted to

Steam Heated Steam Generators

Exhaust Gas Heated Economisers

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

Forced Circulating Pumps

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

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 are subjects of class)

Conversion from Steam to Motor Ship

The steam engine, boilers, auxiliaries and piping were removed in their entirety. The frame and plating in way completely and thoroughly cleaned, and new seatings in accordance with the approved plan and Secretary's letters constructed.

A 6cylinder MAN type engine 4 stroke 425mm x 500mm was fitted, stamped Amsterdam CVC 21.2.57 ex. Barculo. The tail shaft was removed examined and replaced, and 3 lengths of intermediate shafting were replaced as was the thrust shaft and block.

These shafts were stamped as follows:-

Intermediate Shafting

No.1 Lloyds SLD A9 2522. LR 542 2052 AG 1579

No.2 E914 Lloyds 9311 JL 31.8.31 LCD 15.10.31.

No.3 T446 E555 BC 3516 RS 27.6.40.

Thrust shaft and block Michell Type No.26048.

Lloyd's EH 501 17.10.40.

All the above shafting was machined as required and set forth plans previously forwarded, installed, re-aligned, the engine

Survey fees £. 127. 0. 0

Stamps 9

Damage fee

Expenses... 5.19. 6

Date when A/c rendered 11.5.60

9a of Piraeus

Continuation of Report No. 8433 dated 11.5.60

on the

"AGHIOS NICHOLAOS"

shocked and tested under working conditions.

No torsional vibration characteristics were received despite repeated requests to the owners.

During sea trials all machinery was tested (main and auxiliary) and found to be working satisfactory.

Particular attention was given to the main engine over the full range of speed and a slight rhythmic vibration was noted at 230 RPM but this was not apparent within a range of 2 revolution of this figure.

All auxiliary engines and pumps were converted to electric driven units the details of which are as follows.

Port Side Fire Pump Cocker and Wheeler.

Size DN 25KW 1750 RPM 208 amper 110 volt BS 38394 continues wound Serial No. DA. NOB 1-29.

Sanitary Pump.

H.M. manufacture

Serial No. A7117 2800 RPM 110 volt 4-42

W.Pump

H.M. manufacture Serial No. A7118 2800 RPM 110 volt 4-42.

Air Compressor:

Type NV MACHINFABRIK

an Overbeer Rotterdam

Type TK 285 No.2066.

Motor:- GEC Compound wound Continuous Rating 7.5 KW 68 amper 1625 RPM Serial No. ST 054/49.

bd. Side.

Compressor:- Belt driven off electric motor.

Compressor details:-

ar Type EA12H No.23615; MAX DRUCK atm. 30.

tor. Serial No.373286 Type ) 46; 12.5KW 110 volt 135 amper.

50 RPM CONZ

Pump

yds Dynamowerk Bremen

or AW V37 No.500958 KW15 2400 RPM.

Transfer Pump( Centifugal Type Greek Patent) Manufacturer P. Eutichides, Athens.

or Siemens Schuicker No.4505481 110 volt 54.7A 1700 RPM

ge Pump

te 15 tons per hour capacity) Manufacturer as per L.O.Pump.

r.Siemens Schuicker No.4506481 1700 RPM 54.7A 110 volts.

ed. Diesel Generator.

linder Ruston and Hornsby No.229862 class 4VRU

ator:-Langashire Dynamo & CRYPTO

110 227 amps. 25KW 1000RPM.

nuous Rating, Compound wound Size D70 C No.190445.

1.Diesel Generator as above Diesel Serial No. 212888 Motor 17082.

he above machinery was opened up examined and tested and all found good.

submitted that the record of LMC 3.60 be made in the Register Book in the case

s vessel, subject to torsional vibration characteristics being submitted and approved.

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