

Rpt. 9

Date of writing report 21/12/57
Survey held at PALERMO

Received London

No. of visits 18

Port

First date 21/11/57

Last date 19/12/57

REPORT OF PERIODICAL SURVEYS & REPAIRS OF MACHINERY

No. in R.B. 20971 S.S. "MOBIL ASTRAL"
Owners TANKERS NAVIGATION CO. INC. Managers
Engines made 1949 By De Laval S. Turb. Co. Gross tons 17598 Date of build 11/49
No. of Main Engines 1 No. of Screws 1 Type 2 steam turbines DR. geared to so. shaft.
No. of Main Boilers 2 W.P. 685 lb/sq" Spt. Port of Registry Panama
No. of Aux./Donkey Boilers 2 W.P. 625 lb/sq" Spt. Machinery
Surveyed Afloat or in Dry Dock Both Hull SS. 11/54 +LMC
Nature of Survey part MBS, ES, TS.Sp. ES. 11/54
Was Damage Report issued? no Int. Cert.? yes TS.CL. 10/55.
Last Report (For Head Office only) Carrying petroleum in bulk.

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 rewooded Oil Glands Sea Connections = good
Fastenings = good Has Screwshaft/Tubeshaft been drawn? yes Date of Examination 8/12/57 Has Shaft been changed? no
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
4 Crankpins & Bearings Side
5 Journals & Bearings Centre
MAIN ENGINE DRIVEN AIR COMPRESSORS
6 Cyls, Covers, Pistons & Rods
7 Connecting Rods & Top Ends & Guides
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 & Guides
13 Crankpins & Bearings
14 Journals & Bearings
15 Bearings
16 SCAVENGE BLOWERS
17 SUPERCHARGERS
MAIN TURBINES
18 Casings, Rotors, Blading, Bearings & Thrusts = all = good.
EXHAUST STEAM TURBINES (WITH RECIP. ENGINES)
20 STEAM COMPRESSORS
21 PUMPS & HYDRAULIC COMPRESSORS
22 REDUCTION GEARING H.P. High speed pinion and second reduction, and bearings = good.
23 THRUST BLOCKS, SHAFTS & BEARINGS all = good.
24 INTERMEDIATE SHAFTS & BEARINGS all = good.
25 HOLDING DOWN BOLTS & CHOCKS all = good.
26 CONDENSERS (MAIN & AUX.) both = good.
27 STEAM RE-HEATERS
28 DE-SUPERHEATERS
29 STOP & MANOEUVRING VALVES = good
30 MAIN ENGINE DRIVEN PUMPS
31 CRANKCASE DOORS & EXPLOSION RELIEF DEVICES
Have Main Engines been tested working and manoeuvring? yes
OPINION OF MACHINERY AND RECOMMENDATIONS This vessel is eligible, in my opinion, to remain as classed with fresh records of M.B.S. 12/57, T.S. 12/57 & C.L., and the notation E.S. 12/57 when the survey is complete. Fresh record of S.p.s 12/57 also recommended.

THURSDAY - 6 FEB 1958

Date of Committee

Decision

30m, 6.55. T. (MADE AND PRINTED IN ENGLAND)

(E. Grieves)

Engineer Surveyor to Lloyd's Register of Shipping

Lloyd's Register
Foundation

010526 - 010536 - 0350 12

32 Essential Independent Pumps (Identify by position) (1) Please, see below.

33 Bilge, Ballast & Oil Fuel Suction Lines, Fittings & Controls all - good.

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

35 Fresh Water Coolers 36 Lub. Oil Coolers = good

38 Independent Air Compressors, Coolers & Safety Devices = good

39 Air Receivers & Safety devices - good

42 Evaporators = good

44 Steering Machinery = good

43 Have Evaporator Safety Valves been tested under steam? (Atmosphere type)

45 Windlass = good

46 Fire Extinguishing Arrangements = good

AUXILIARY ENGINES (Identify by position) Outboard and inboard turbo generators = good.

Engine room flat, port side.

PROPULSION PORT STARBOARD ELECTRICAL EQUIPMENT

Generators = good
Motors = good
Air Coolers = good
Control Gear, Cables, etc. = good
Insulation Resistance = good
Insulating Oil Test = good
Overspeed Governors = good
Magnetic Couplings = good
Air Gap = good

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

MAIN Both (watertube) - 4/12/57

AUXILIARY, DONKEY or PRESS. none

Superheaters = good

Safety Valves = good

Mountings, Doors & Fastenings = good

Safety Valves Adjusted to Sat. 625 lbs/sq"

Spt. 685 lbs/sq"

Boiler Securing Arrangements = good

Main Economisers = good

Steam Heater Steam Generators

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

Have Steam Pipes in cylinder boiler been examined as required by Rules?

EXAMINATION & TESTING OF STEAM PIPES (State material)

Main (Steel) yes.

Auxiliary (over 3 in. bore) (Steel) yes.

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)

(1) ESSENTIAL INDEPENDENT PUMPS:- 3 turbo feed pumps, 2 forced lub' oil pumps, 1 fuel oil transfer pump.

- Engine room (s.s.) all - good.

2 Main condensate pumps, 1 main circulating pump. - Engine room forward all - good.

1 Auxiliary circulating pump, 1 aux' condensate pump, 2 bilge pumps. -

Engine room (p.s.), all - good.

1 bilge pump, 1 aux' feed pump - After compartment, all - good.

1 Fuel oil transfer pump, 1 ballast and bilge pump. Forward pump room -

Boiler platform s.s., 2 high pressure fuel oil pumps = good.

Upper part of boiler room two forced draught fans = good.

NOTE/- To complete the Survey, the L.P. secondary reduction and the main gear wheels & bearings remain to be examined.

WEAR & TEAR REPAIRS:- Screwshaft:- Screwshaft liner skimmed and lignum vitae of stern bush renewed.

H.P. turbine:- Second reduction quill shaft renewed.

Identity marks L.R. No. 8031, W.R. 6/9/49.

(Continued/.....)

Survey fees E.S. Lit. 148.500
Dkg. 12.000
TS. 12.000
MBS. 48.000
Steam pipes 12.000
Electr. 60.000

Date when A/c rendered

Rpt. 9a

Port of NAPLES

Continuation of Report No. 6550

dated 21st December, 1957. on the

S/S. "MOBIL ASTRAL"

Boilers:- Port boiler 5 water wall tubes renewed.

- Starbd. boiler 9 water wall tubes renewed.

Endorsement:- Boiler furnace roof tubes sagged. These tubes examined and found to remain efficient. This item may remain as at present.

E.f.

Boiling, screwshaft seen
ES due 11/57 partly held now
MBS due 11/57 now held
Steam pipes examined
It is submitted that this
vessel is eligible for THE
RECORD. MBS 12/57, TSCL 12/57
and SPS 12/57 now and ES 12/57
when the survey has been completed
as this report

LEAVE THIS SPACE BLANK

J.L. 28/11/57
(sevoir D.J.)



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