

Rpt. 9

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

Received London

Port of NAPLES

No. 6550

No. of visits 18

First date 21/11/57

Last date 19/12/57

REPORT OF PERIODICAL SURVEYS & REPAIRS OF MACHINERY

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

Hull	Machinery
+100A1	+LMC
SS. 11/54	ES. 11/54
	MBS. 11/56
	TS.CL. 10/55.

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/Tubshaft 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 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

SCAVENGE BLOWERS
 16
SUPERCHARGERS
 17
MAIN TURBINES
 18 Casings, Rotors, Blading, Bearings & Thrusts = all = good.

EXHAUST STEAM TURBINES (WITH RECIP. ENGINES)
 19
STEAM COMPRESSORS
 20
STOUCHES & HYDRAULIC COUPLINGS
 21

REDUCTION GEARING
 22 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.

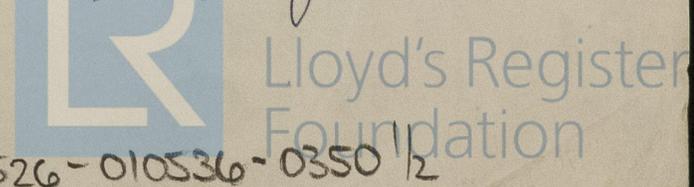
STEAM RE-HEATERS
 27
DE-SUPERHEATERS
 28
 29 STOP & MANOEUVRING VALVES = good
 30 **MAIN ENGINE DRIVEN PUMPS**
 31 **CRANKCASE DOORS & EXPLOSION RELIEF DEVICES** Have Main Engines been tested working and manoeuvring? yes

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 MBS 12, 57
 SPS 12, 57 TS 12, 57

(E. Grieves) E. Grieves
 Engineer Surveyor to Lloyd's Register of Shipping



010526 - 010536 - 0350 12

Has a Survey also been held on Ship? If so, is the Report sent now, or when will it be sent?

If certificate is required state where to be sent

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 = good

36 Lub. Oil Coolers = good

37 Heaters (state service) Feed oil fuel = good.

38 Independent Air Compressors, Coolers & Safety Devices = good

39 Air Receivers & Safety devices = good

40 Auxiliary = good

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

42 Evaporators = good

43 Windlass = good

44 Steering Machinery = good

45 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	AUXILIARY EQUIPMENT
a	Generators			1 Generators & Governors = good
b	Exciters			2 Motors = good
c	Air Coolers			n Switchboards & Fittings = good
d	Motors			o Circuit Breakers = good
e	Air Coolers			p Cables = good
f	Control Gear, Cables, etc.			q Insulation Resistance = good
g	Insulation Resistance			r Steering Gear Generators and Motors = good
h	Insulating Oil Test			s Navigation Light Indicators = good
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 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

Stream Heaters Steam Generators

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

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

Funnel = good

EXAMINATION & TESTING OF STEAM PIPES (State material)

Main (Steel) yes.

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

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 = good.

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. turbines:- 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

Boiling, screwshaft seen
 ES due 11/58 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

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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.