

REPORT ON OIL ENGINE MACHINERY

No. 48997

2-APR 1949

Received at London Office

Port of NEW YORK N.Y.

held at BROOKLYN N.Y.

Date, First Survey 9TH SEPT 48 Last Survey 7TH JAN 1949

Number of Visits 3

Single }
Twin } Screw vessel M.V. "LINDA" EX LST N° 200
Triple }
Triple }

Tons { Gross
Net

checked by CA 1LL By whom built CHICAGO BRIDGE & IRON WORKS Yard No. 4 When built 1943-2

A GRANGE 1LL By whom made ELECTRO MOTIVE CORP DIVISION OF P.N.426
GENERAL MOTORS CORP Engine No. S.N.473 When made 1943-1

renewed at MILWAUKEE WISC By whom made CLEAVER-BROOKS CO Boiler No. NB6581 When made 1942-6

1800 Owners SHELL CARIBBEAN PETROLEUM CO Port belonging to MARACAIBO

as per Rule 305. MN 316 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YES

essel is intended PETROLEUM IN BULK (CURACAO-MARACAIBO-CARIBBEAN SEA)

ES, &c.—Type of Engines V-TYPE VERTICAL DIESEL 12-567ATL 2 or 4 stroke cycle 2 Single or double acting SINGLE

cylinders 12 Diameter of cylinders 8 1/2" Length of stroke 10" No. of cylinders 12 EACH No. of cranks 6

cent to the Crank, measured from inner edge to inner edge 3+4 (P+S) 13 1/16" Is there a bearing between each crank YES

se 744 CLUTCH Flywheel dia. 35" Weight 684 LBS Means of ignition COMPRESSION Kind of fuel used DIESEL

ged dia. of journals as per Rule 7 1/2" Crank pin dia. 6 1/2" Crank Webs Mid length breadth 10" Thickness parallel to axis

as fitted 7 1/2" Mid length thickness 2 9/16" Thickness around eyehole

as per Rule Intermediate Shafts, diameter as per Rule 5 3/4" Thrust Shaft, diameter at collars as per Rule

as fitted as fitted as fitted

as per Rule Screw Shaft, diameter as per Rule 6 1/8" Is the shaft fitted with a continuous liner No

as fitted as fitted as fitted

Thickness in way of bushes as per Rule Thickness between bushes as per Rule Is the after end of the liner made watertight in the

as fitted as fitted as fitted

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner

fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive

d, is the shaft lapped or protected between the liners Is an approved Oil Gland or other appliance fitted at the after end of the tube

o, state type Length of Bearing in Stern Bush next to and supporting propeller 2'-8 1/2"

0" Pitch 4-583' No. of blades FOUR Material BRONZE whether Moveable SOLID Total Developed Surface 16.55 sq. feet

ng Engines NON-REVERSIBLE Is a governor or other arrangement fitted to prevent racing of the engine when declutched YES Means of lubrication

ess of cylinder liners 3/8" Are the cylinders fitted with safety valves No Are the exhaust pipes and silencers water-cooled or lagged with

ial YES If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine

umps, No. ONE FW 350 GPM EACH ONE SW CENT. FUEL Is the sea suction provided with an efficient strainer which can be cleared within the vessel YES

ed from the Main Engines, No. NIL Diameter Stroke Can one be overhauled while the other is at work

o the Main Bilge Line No. and Size TWO 250 GPM, TWO 1500 GPM AND ONE 90 GPM; TWO 1750 GPM

led to the bilges No How driven ELECTRIC MOTORS; TWO 175 BHP DIESEL UNITS

o. and size TWO 1500 GPM, ELE Power Driven Lubricating Oil Pumps including Spare Pump, No. and size THREE SERVICE 20 GPM ONE TRANSFER EACH

t means arranged for circulating water through the Oil Cooler YES Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

e:—In Machinery Spaces ER. TWO 3"; SPACES P+S TWO 2"; TUNNELS FOUR 2"; ALL TO 3" RANGE In Pump Room THREE 2" DIA.

CS. CENTER NOS 1 TO 7, WING NOS 1 TO 8 (P+S) ONE EACH 10" DIA; WING NOS 6+ (P+S) ONE EACH 6" DIA; FORE PEAK ONE 4" DIA; CHAIN LOCKERS

(P+S) ONE 2" DIA EACH; COFFERDAMS AFT (P+S) ONE 2" DIA EACH; BALLAST TANK AFT ONE 6" DIA; VOID SPACES FORD ONE 3" DIA AFT ONE 2"; 2ND DECK (AFT) SIX 2" DIA

er Pump Direct Suctions to the Engine Room Bilges, No. and size TWO 4" DIA

uction pipes in Holds and Tunnel Well fitted with strum-boxes YES Are the Bilge Suctions in the Machinery Spaces

sible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges YES

ctions fitted direct on the skin of the ship NO ON BOXES OR SPOOLS Are they fitted with Valves or Cocks VALVES

iently high on the ship's side to be seen without lifting the platform plates YES Are the Overboard Discharges above or below the deep water line YES

with a Discharge Valve always accessible on the plating of the vessel YES Are the Blow Off VALVE COCKS fitted with a spigot and STEEL brass covering plate YES

rough the bunkers How are they protected

rough the deep tanks Have they been tested as per Rule

, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times YES

of valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from

another YES Is the Shaft Tunnel watertight YES Is it fitted with a watertight door No worked from

bat means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

essors, No. NIL No. of Stages Diameters Stroke Driven by

mpressors, No. TWO No. of Stages TWO Diameters 2 1/2 + 4" Stroke 3" Driven by ELE MOTORS

Air Compressors, No. No. of Stages Diameters Stroke Driven by

made for first Charging the Air Receivers MAIN & AUXILIARY ENGINES, ELECTRIC STARTING MOTORS WITH BATTERY SETS FILTER

Pumps, No. TWO EACH ENGINE Diameter POSITIVE DISPLACEMENT Stroke 1830 C.F.M. Driven by ME GEARS

as per Rule No. TWO HEAVY OIL UNITS 150 BHP EACH

as fitted MAIN BEARINGS 4 1/2"; CRANK PINS 3 1/2" DIA Position AUXILIARY MACH ROOM DIRECTLY ABOVE MAIN ER.

Engines been constructed under special survey U.S. NAVY & ABS Is a report sent herewith YES

AIR RECEIVERS:—Have they been made under survey ABS + LR State No. of Report or Certificate LR -

Is each receiver, which can be isolated, fitted with a safety valve as per Rule YES

Can the internal surfaces of the receivers be examined and cleaned NO

CLUTCH PRESSURE
Injection Air Receivers, No. TWO Cubic capacity of each 5 CF Is a drain fitted at the lowest part of each receiver YES
OUTSIDE diameter 16" thickness 1/4"

Seamless, lap welded or riveted longitudinal joint WELDED Material OH STEEL Range of tensile strength 55000 PSI MIN Working pressure 100 PSI

PUMPING ENGINES
Starting Air Receivers, No. ONE Total cubic capacity 10 1/2 CF Internal diameter 20" thickness 1/4"

Seamless, lap welded or riveted longitudinal joint WELDED Material OH STEEL Range of tensile strength 55000 PSI MIN Working pressure 100 PSI

IS A DONKEY BOILER FITTED? YES If so, is a report now forwarded? YES

Is the donkey boiler intended to be used for domestic purposes only YES

PLANS. Are approved plans forwarded herewith for Shafting YES Receivers YES Separate Fuel Tanks YES

Donkey Boilers YES General Pumping Arrangements YES Pumping Arrangements in Machinery Space YES

Oil Fuel Burning Arrangements YES

SPARE GEAR.

Has the spare gear required by the Rules been supplied YES

State the principal additional spare gear supplied YES

The foregoing is a correct description

Manufacturer.

Dates of Survey while building
During progress of work in shops YES
During erection on board vessel YES
Total No. of visits YES

Dates of Examination of principal parts—Cylinders 19. 11. 48 Covers 19. 11. 48 Pistons 19. 11. 48 Rods YES Connecting rods YES

Crank shaft 24. 11. 48 Flywheel shaft 24. 11. 48 Thrust shaft 24. 11. 48 Intermediate shafts 3. 12. 48 Tube shaft YES

Screw shaft 5. 3. DEC 48 Propeller P 2817 Stern tube 3. 12. 48 Engine seatings 24. 11. 48 Engines holding down YES

Completion of fitting sea connections YES Completion of pumping arrangements 30. 12. 48 Engines tried under working condition YES

Crank shaft, Material OH STEEL Identification Mark P P 4595 HT 122575 Flywheel shaft, Material YES Identification Mark YES

Thrust shaft, Material OH STEEL Identification Mark YES Intermediate shafts, Material OH STEEL Identification Mark YES

Tube shaft, Material YES Identification Mark YES Screw shaft, Material OH STEEL Identification Mark YES

Identification Marks on Air Receivers (P) ABS 5615-X (S) ABS 5693-X

FOR PUMPING ENGINE LR 3197 GN 11. 16. 48 TP 500 WP 250 LBS

Is the flash point of the oil to be used over 150° F. YES

Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with YES

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo TANKER If so, have the requirements of the Rules been complied with YES

If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with YES

Is this machinery duplicate of a previous case YES If so, state name of vessel MV "LUISA"

General Remarks (State quality of workmanship, opinions as to class, &c.) The machinery of this vessel was under supervision & to the requirements of the American Bureau of Shipping & U S Navy & standard of workmanship are considered good & satisfactory.

The main & auxiliary machinery of this vessel has been examined this

placed in good condition (see Rpt 9) the machinery has been subjected to full

trials & found satisfactory, all governors tried out.

The machinery of this vessel is eligible, in our opinion, to be classed

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