

REPORT ON OIL ENGINE MACHINERY.

No. 13335

-8 DEC 1934

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Writing Report 27 Nov 1934 When handed in at Local Office 19 Port of Amsterdam
Survey held at Hengelo & Amsterdam Date, First Survey 15 June Last Survey 27 Nov 1934
Number of Visits 24

on the Single } Screw vessel M.V. 1086 "SUNETTA" Tons { Gross _____
Triple }
Quadruple }
By whom built Rotterdam dry dock CV Yard No. 186 When built 1924
made at Hengelo & Amsterdam By whom made Stork Bros (Werkspoor Rienc) Engine No. 3699 When made 1934
Boilers made at _____ By whom made _____ Boiler No. _____ When made _____
Horse Power 2,000 Owners N.V. Petroleum M^o La Carbona Port belonging to Gravenhage
Horse Power as per Rule 502 Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____
for which vessel is intended _____ 25-9/16 55-8/8

Engines, &c.—Type of Engines Diesel Injection Supercharge or 4 stroke cycle 4 Single or double acting single
pressure in cylinders 700 lbs Diameter of cylinders 650 mm Length of stroke 1400 mm No. of cylinders 8 No. of cranks 8
rated Pressure 110 lbs
Bearings, adjacent to the Crank, measured from inner edge to inner edge 844 mm Is there a bearing between each crank yes
Revolutions per minute 110 Flywheel dia. 2260 mm Weight 6500 kg Means of ignition spark Kind of fuel used Crude oil
Shaft, dia. of journals as per Rule 444 mm Crank pin dia. 460 mm Crank Webs Mid. length breadth 870 mm Thickness parallel to axis _____
as fitted 460 mm Mid. length thickness 290 mm Thickness around eyehole _____
Shaft, diameter as per Rule 444 mm Intermediate Shafts, diameter as per Rule 213 mm Thrust Shaft, diameter at collars as per Rule 290 mm
as fitted 460 mm as fitted 470 mm as fitted 460 mm
Shaft, diameter as per Rule _____ Screw Shaft, diameter as per Rule 345 mm Is the tube shaft fitted with a continuous liner yes
as fitted _____ as fitted 460 mm as fitted _____

Liners, 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 20.5 mm as fitted _____
If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner _____
does not 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 _____
are fitted, 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 _____
If so, state type _____ Length of Bearing in Stern Bush next to and supporting propeller _____
dia. 15'-0" Pitch 12'-0" No. of blades 4 Material bronze whether Moveable no Total Developed Surface 72 sq. feet
of reversing Engines by air Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of lubrication _____
Thickness of cylinder liners 55 mm Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with _____
ing material lagged If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine _____

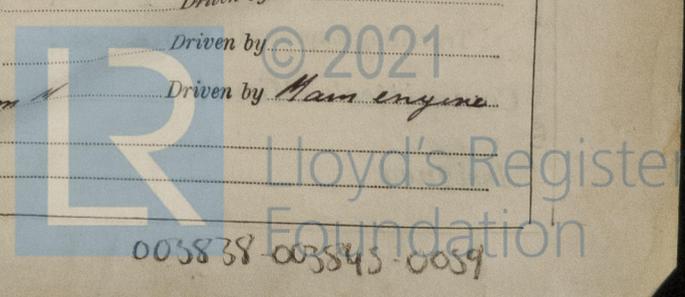
Water Pumps, No. 3 saltwater fresh water Is the sea suction provided with an efficient strainer which can be cleared within the vessel _____
Pumps worked from the Main Engines, No. 2 Rotary Diameter 35 cm each Stroke _____ Can one be overhauled while the other is at work yes
connected to the Main Bilge Line { No. and Size _____
How driven _____
ing water led to the bilges _____ If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping _____

Pumps, No. and size _____ Power Driven Lubricating Oil Pumps, including Spare Pump, No. and size rotary pump 40 l/h
steam driven 8" x 8" x 10"
dependent means arranged for circulating water through the Oil Cooler yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge _____
and size:—In Machinery Spaces _____ In Pump Room _____

Direct Power Pump Direct Suctions to the Engine Room Bilges, No. and size _____
Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes _____ Are the Bilge Suctions in the Machinery Spaces _____
ily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges _____
Connections fitted direct on the skin of the ship _____ Are they fitted with Valves or Cocks _____
l sufficiently high on the ship's side to be seen without lifting the platform plates _____ Are the Overboard Discharges above or below the deep water line _____
fitted with a Discharge Valve always accessible on the plating of the vessel _____ Are the Blow Off Cocks fitted with a spigot and brass covering plate _____
pass through the bunkers _____ How are they protected _____
pass through the deep tanks _____ Have they been tested as per Rule _____

s, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times _____
ement 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 one _____
to another _____ Is the Shaft Tunnel watertight _____ Is it fitted with a watertight door _____ worked from _____
sel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork _____
Compressors, No. _____ No. of stages _____ Diameters _____ Stroke _____ Driven by _____
Air Compressors, No. _____ No. of stages _____ Diameters _____ Stroke _____ Driven by _____
Auxiliary Air Compressors, No. _____ No. of stages _____ Diameters _____ Stroke _____ Driven by _____
Air Pumps, No. Bottom end cylinders Diameter 650 Stroke 1400 mm Driven by Main engine

Engines crank shafts, diameter as per Rule _____
as fitted _____



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AIR RECEIVERS:—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. *Yes* Is a drain fitted at the lowest part of each receiver. *Yes*

High Pressure Air Receivers, No. *none* Cubic capacity of each *—* Internal diameter *—* thickness *—*

Seamless, lap welded or riveted longitudinal joint *—* Material *—* Range of tensile strength *—* Working pressure by Rules *—* Actual *—*

Starting Air Receivers, No. *2* Total cubic capacity *800 cub feet* Internal diameter *14.95 m M* thickness *2.1 m M*

Seamless, lap welded or riveted longitudinal joint *meted* Material *SMS* Range of tensile strength *29.24 ton* Working pressure by Rules *37.5 lbs* Actual *25 lbs*

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

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

PLANS. Are approved plans forwarded herewith for Shafting *E.S. 12.334 P. 2.24* Receivers *E 20-1-34* Separate Tanks *—*

Donkey Boilers *—* General Pumping Arrangements *E 21-5-34 7-7-34* Oil Fuel Burning Arrangements *E 26-10-34*

SPARE GEAR.

Has the spare gear required by the Rules been supplied.

State the principal additional spare gear supplied.

The foregoing is a correct description,

Machinefabrick GEBB, STORK & Co. N.V. Manufacturer.

Dates of Survey while building: During progress of work in shops - *June 15-21. 22-26 July 17-19. 21-26. 28-30-31 Aug 8-9-11-15-17-23-28-29*
During erection on board vessel - *Sep 14-18. 26 Oct 5-12-18-23 Nov 2-14-22*
Total No. of visits *—*

Dates of Examination of principal parts—Cylinders *July 28-30. 31* Covers *Aug 9-11* Pistons *9 August* Rods *9 Aug* Connecting rods *9 Aug*
Crank shaft *21.27.18 O.A.H. 22-6-34* Flywheel shaft *—* Thrust shaft *8. 8-34* Intermediate shafts *28-9-34* Tube shaft *—*
Screw shaft *—* Propeller *—* Stern tube *13-11-24* Engine seatings *—* Engines holding down bolts *—*

Completion of fitting sea connections *—* Completion of pumping arrangements *—* Engines tried under working conditions *—*
Crank shaft, Material *SMS* Identification Mark *2127. 2120* Flywheel shaft, Material *SMS* Identification Mark *2063 J.L. 24.4.3*
Thrust shaft, Material *SMS* Identification Mark *1153 H.P.B. 2-8-34* Intermediate shafts, Material *SMS* Identification Marks *285 K.K. 4-7-34*
Tube shaft, Material *—* Identification Mark *—* Screw shaft, Material *—* Identification Mark *—*

Is the flash point of the oil to be used over 150° F. *—*
Have the requirements of the Rules for oil fuel pipes and tank fittings been complied with. *—*
Is the vessel (not being an oil tanker) fitted for carrying oil as cargo. *—* If so, have the requirements of the Rules been complied with. *—*
If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with. *—*

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *M.V. Perma*

General Remarks (State quality of workmanship, opinions as to class, &c.)
The engine has been constructed under special survey in accordance with the approved plans and Secretary's letters. Material ^{tested} as required. workmanship throughout good

The engine has been forwarded to Rotterdam and will be placed on M/Vs Rotterdam drydock O. Yard No 186.

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

The amount of Entry Fee *£ 72.-* : When applied for, *19*
Special *4/5 fee* *£ 96.-* : When received, *27-12-19 34 70*
2 Air Receivers
Donkey Boiler Fee *£ 102.00*
charged in error & refunded
Travelling Expenses (if any) *£ 100.-*
from Imp. of S. see memo. dated 3/11/34 with J. Dept.
Committee's Minute *FRL 8 MAR 1935*

Burgdoff
Engineer Surveyor to Lloyd's Register of Shipping.

Assigned *See minute on Rot 38 Rm 23510*

