

REPORT ON OIL ENGINE MACHINERY.

No. 19959

24 DEC 1930

Date of writing Report 12-12-1930 When handed in at Local Office

Port of Rotterdam

No. in Survey held at Rotterdam

Date, First Survey 12. 6. 29 Last Survey 25. 11. 1930

Reg. Book.

Number of Violets 60

on the ~~Double~~ ^{Single} Screw vessel

TARAKAN

Tons { Gross 8183 Net 4914

Built at Rotterdam By whom built My Tjenvoed Yard No. 518 When built 1930

Engines made at Rotterdam By whom made " " Engine No. 561 When made 1930

Donkey Boilers made at Boonlen By whom made W. W. West. Kupertina Boiler No. When made 1930

Indicated Horse Power Owners Hoornv. My. Nederland Port belonging to Amsterdam

Is Horse Power as per Rule 7455 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

Use for which vessel is intended General 32 9/16 56 1/16

ENGINES, &c. Type of Engines MAN Diesel Engine 2 or 4 stroke cycle 2 Single or double acting Single

Maximum pressure in cylinders 55 1/2 lbs. Diameter of cylinders 820 mm. Length of stroke 1440. No. of cylinders 8 No. of cranks 8

Distance of bearings, adjacent to the Crank, measured from inner edge to inner edge 1200 mm. Is there a bearing between each crank Yes

Revolutions per minute 105 Flywheel dia. 1020 mm. Weight 1700 kg. Means of ignition Compression Kind of fuel used Diesel Oil

Crank Shaft, dia. of journals as per Rule 580 mm. Crank pin dia. 580 mm. Crank Webs Mid. length breadth 60 mm. Thickness parallel to axis 56 mm. Mid. length thickness 56 mm. Thickness around eye hole 26 mm.

Wheel Shaft, diameter as per Rule 580 mm. Intermediate Shafts, diameter as per Rule 440 mm. Thrust Shaft, diameter at collars as per Rule 580 mm.

Screw Shaft, diameter as per Rule 490 mm. Is the shaft fitted with a continuous liner Yes

Size Liners, thickness in way of bushes as per Rule 23 mm. Thickness between bushes as per Rule 20 mm. Is the after end of the liner made watertight in the

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

When 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 Tight fit

When two liners are fitted, is the shaft lapped or protected between the liners No Is an approved Oil Gland or other appliance fitted at the after

end of the tube shaft No Length of Bearing in Stern Bush next to and supporting propeller 1930 mm.

Propeller, dia. 19' 8" Pitch No. of blades 4 Material Bronze whether Moveable No Total Developed Surface 120 sq. feet

Method of reversing Engines Camshaft Is a governor or other arrangement fitted to prevent racing of the engine when decoupled Yes Means of lubrication

Forged Thickness of cylinder liners Are the cylinders fitted with safety valves Yes Are the exhaust pipes and silencers water cooled or lagged with

conducting material Yes If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine Tunnel

Working Water Pumps, No. 2 to 4100 g.p.h. Is the sea suction provided with an efficient strainer which can be cleared within the vessel Yes

Engine Pumps worked from the Main Engines, No. 1 Diameter 150 mm. Stroke 120 mm. Can one be overhauled while the other is at work Yes

Pumps connected to the Main Bilge Line No. and Size 2 One to 1500 g.p.h. 1 to 2200 g.p.h. How driven Electrically

Fast Pumps, No. and size One to 2200 g.p.h. Lubricating Oil Pumps, including Spare Pump, No. and size 2 to 600 g.p.h. 1 to 400 g.p.h.

Are two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

Pumps, No. and size:—In Machinery Spaces 8 to 3 1/2" One in Rotterdam to 3 1/2" One in Tunnel well to 3 1/2"

Holds, &c. In all holds 2 to 3 1/2" 2 in Quarters 3 1/2"

Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size One to 6" 1 to 3 1/2"

Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes Yes Are the Bilge Suctions in the Machinery Spaces

from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes

Are all Sea Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks Both

Are they fixed sufficiently 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 Above

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes

Do all pipes pass through the bunks None How are they protected

Do all pipes pass through the deep tanks None Have they been tested as per Rule

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes

Is the arrangement 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

compartment to another Yes Is the Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Upper platform

On a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork

Main Air Compressors, No. 2 No. of stages 2 (2 1/2) Diameters 600 x 500 (600-500) Stroke 60 mm. Driven by Main shaft

Auxiliary Air Compressors, No. 2 No. of stages 3 Diameters 312 x 312 x 74 Stroke 180 mm. Driven by Electric Motor

Small Auxiliary Air Compressors, No. 1 No. of stages 3 Diameters 110 x 110 x 26 Stroke 80 mm. Driven by Main Motor

Exhausting Air Pumps, No. One (double acting) Diameter 1650 mm. Stroke Driven by Main shaft

Auxiliary Engines crank shafts, diameter as per Rule 170 mm. as fitted 170 mm. 6 cy. 450 g.p.h. 275 dia. 450 stroke 4 Engines

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule Yes

Are the internal surfaces of the receivers be examined Yes What means are provided for cleaning their inner surfaces Covers

Is there a drain arrangement fitted at the lowest part of each receiver Yes

High Pressure Air Receivers, No. 5 5 Cubic capacity of each 27.50 litres Internal diameter 540 mm. thickness 20 mm.

Seamless, lap welded or riveted longitudinal joint Seamless Material S. M. Steel Range of tensile strength 51-55 kg. Working pressure by Rules 10.65 lbs.

Starting Air Receivers, No. Two (2) Total cubic capacity 10.16 each Internal diameter 142.8 mm. thickness 13.4 mm.

Seamless, lap welded or riveted longitudinal joint Riveted Material S. M. Steel Range of tensile strength 44-50 kg. Working pressure by Rules 10.14 lbs.

003401-003408-0102

IS A DONKEY BOILER FITTED?

PLANS. Are approved plans forwarded herewith for Shaftering (If not, state date of approval)

Donkey Boilers

General Pumping Arrangements

If so, is a report now forwarded? Made at Amsterdam

Receivers

Separate Tanks

SPARE GEAR

One cylinder cover complete, with valves and easing spring, and one complete set of valves for one cylinder complete. A full set of for needles. A piston with rod and rings complete. One set of telescopic pipes. One chain and wheels for camshaft drive. A set of studs and nuts complete for one cylinder. 2 Crosshead bolts, 2 bottom end bolts, 2 main bearing bolts and nuts. One set of bolts for crankshaft coupling, one set of for one intermediate shaft coupling. One screw shaft. Furthermore, per owners specification in excess of the Society's requirements. For main air compressors and pumps. One complete set of rings and valves, also for scavenging pumps.

The foregoing is a correct description,

Maatschappij voor Scheeps- en Werktuigbouw

RIJSDIENST

Manufacturer.

Dates of Survey while building	During progress of work in shops--	1929	12	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1930	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1931	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1932	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1933	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1934	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1935	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1936	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1937	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1938	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1939	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1940	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1941	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1942	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1943	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1944	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1945	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1946	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1947	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1948	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1949	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1950	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1951	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1952	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1953	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1954	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1955	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1956	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1957	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1958	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1959	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1960	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1961	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1962	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1963	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1964	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1965	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1966	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1967	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1968	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1969	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1970	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1971	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1972	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1973	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1974	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1975	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1976	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1977	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1978	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1979	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1980	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1981	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1982	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1983	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1984	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	1985	1	2	3	4	5	6	7	8	9	10	11	12	13	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