

## REPORT ON OIL ENGINE MACHINERY.

No. 11585

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to Port of AMSTERDAM

No. in Survey held at AMSTERDAM  
Reg. Book.Date, First Survey 19 February Last Survey 14 Aug 1929  
Number of Visits 15Single  
Twin  
Triple  
Quadruple

OIL LIGHTER

Tons { Gross -  
Net -

Built at 7 By whom built Mitsui Bussan Kaisha Yard No. 171 When built 1929  
Engines made at Amsterdam By whom made Kromhout Meteren Fabriek Engine No. 523 When made 1929  
Donkey Boilers made at - By whom made - Boiler No. - When made -  
Brake Horse Power 280 Owners Rising Sun Petroleum Co. Port belonging to -  
Nom. Horse Power as per Rule 80 Is Refrigerating Machinery fitted for cargo purposes - Is Electric Light fitted -  
Trade for which vessel is intended -

IL ENGINES, &c. Type of Engines Kromhout oil engine 2 or 4 stroke cycle 2 Single or double acting  
Maximum pressure in cylinders 315 lb. Diameter of cylinders 400 Length of stroke 450 mm No. of cylinders 4 No. of cranks 4  
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 442 mm Is there a bearing between each crank ☒  
Revolutions per minute 240 Flywheel dia. 950 mm Weight 1450 kg Means of ignition igniting plug and of fuel used kerosene oil  
Crank Shaft, dia. of journals as per Rule 140 mm Crank pin dia. 140 mm Crank Webs Mid. length breadth 226 mm Thickness parallel to axis  
as fitted 140 mm Mid. length thickness 96 mm Thickness around eyehole 124.6 mm  
Flywheel Shaft, diameter as per Rule 135 mm Intermediate Shafts, diameter as per Rule Thrust Shaft, diameter at collars as per Rule  
as fitted 135 mm as fitted Thrust Shaft, diameter at collars as fitted 135 mm  
Tube Shaft, diameter as per Rule Screw Shaft, diameter as per Rule Is the tube screw shaft fitted with a continuous liner  
as fitted as fitted as fitted  
Bronze 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 as fitted as fitted  
propeller boss ☒ If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner ☒  
If 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 ☒  
If two liners 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 shaft ☒ Length of Bearing in Stern Bush next to and supporting propeller ☒

Propeller, dia. ☒ Pitch ☒ No. of blades ☒ Material ☒ whether Moveable ☒ Total Developed Surface ☒ sq. feet  
Method of reversing Engines Direct Is a governor or other arrangement fitted to prevent racing of the engine when declutched ☒ Means of lubrication  
Thick. of cylinder liners ☒ Are the cylinders fitted with safety valves ☒ Are the exhaust pipes and silencers water cooled or lagged with  
non-conducting material ☒ If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine ☒

Cooling Water Pumps, No. 2 Is the sea suction provided with an efficient strainer which can be cleared within the vessel ☒  
Bilge Pumps worked from the Main Engines, No. 2 Diameter 125 mm Stroke 50 mm Can one be overhauled while the other is at work ☒  
Pumps connected to the Main Bilge Line { No. and Size ☒  
How driven ☒

Ballast Pumps, No. and size ☒ Lubricating Oil Pumps, including Spare Pump, No. and size 2 of 100 mm  
Are two independent means arranged for circulating water through the Oil Cooler ☒ Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge  
Pumps, No. and size:—In Machinery Spaces ☒  
In Holds, &c. ☒

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

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times ☒  
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 ☒ Is the Shaft Tunnel watertight ☒ Is it fitted with a watertight door ☒ worked from ☒

If 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. 1 Recavell L.S.C. & Co. No. of stages 2 Diameters 4 1/2, 3 1/2 Stroke 4 Driven by Main engine  
Auxiliary Air Compressors, No. 1 Recavell L.S.C. & Co. No. of stages 2 Diameters 4 1/2, 3 1/2 Stroke 4 Driven by Aux. Eng. E.R.O.  
Small Auxiliary Air Compressors, No. 1 No. of stages 1 Diameters ☒ Stroke ☒ Driven by ☒  
Scavenging Air Pumps, No. ☒ Diameter ☒ Stroke ☒ Driven by ☒

Auxiliary Engines crank shafts, diameter as per Rule E.R. 1 85 mm, E.R. 0 45 mm  
as fitted

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule ☒  
Can the internal surfaces of the receivers be examined ☒ What means are provided for cleaning their inner surfaces ☒ (manhole)

Is there a drain arrangement fitted at the lowest part of each receiver ☒  
High Pressure Air Receivers, No. ☒ Cubic capacity of each ☒ Internal diameter ☒ thickness ☒

Seamless, lap welded or riveted longitudinal joint ☒ Material ☒ Range of tensile strength ☒ Working pressure by Rules ☒  
Starting Air Receivers, No. 2 Total cubic capacity 80 cu. ft. Internal diameter 2' 3 1/2" thickness 1/2"

Seamless, lap welded or riveted longitudinal joint ☒ Material Steel Range of tensile strength 20/22 tons Working pressure by Rules 3.2/3.4/3.6/3.8/4.0/4.2/4.4/4.6/4.8/5.0/5.2/5.4/5.6/5.8/6.0/6.2/6.4/6.6/6.8/7.0/7.2/7.4/7.6/7.8/8.0/8.2/8.4/8.6/8.8/9.0/9.2/9.4/9.6/9.8/10.0/10.2/10.4/10.6/10.8/11.0/11.2/11.4/11.6/11.8/12.0/12.2/12.4/12.6/12.8/13.0/13.2/13.4/13.6/13.8/14.0/14.2/14.4/14.6/14.8/15.0/15.2/15.4/15.6/15.8/16.0/16.2/16.4/16.6/16.8/17.0/17.2/17.4/17.6/17.8/18.0/18.2/18.4/18.6/18.8/19.0/19.2/19.4/19.6/19.8/20.0/20.2/20.4/20.6/20.8/21.0/21.2/21.4/21.6/21.8/22.0/22.2/22.4/22.6/22.8/23.0/23.2/23.4/23.6/23.8/24.0/24.2/24.4/24.6/24.8/25.0/25.2/25.4/25.6/25.8/26.0/26.2/26.4/26.6/26.8/27.0/27.2/27.4/27.6/27.8/28.0/28.2/28.4/28.6/28.8/29.0/29.2/29.4/29.6/29.8/30.0/30.2/30.4/30.6/30.8/31.0/31.2/31.4/31.6/31.8/32.0/32.2/32.4/32.6/32.8/33.0/33.2/33.4/33.6/33.8/34.0/34.2/34.4/34.6/34.8/35.0/35.2/35.4/35.6/35.8/36.0/36.2/36.4/36.6/36.8/37.0/37.2/37.4/37.6/37.8/38.0/38.2/38.4/38.6/38.8/39.0/39.2/39.4/39.6/39.8/40.0/40.2/40.4/40.6/40.8/41.0/41.2/41.4/41.6/41.8/42.0/42.2/42.4/42.6/42.8/43.0/43.2/43.4/43.6/43.8/44.0/44.2/44.4/44.6/44.8/45.0/45.2/45.4/45.6/45.8/46.0/46.2/46.4/46.6/46.8/47.0/47.2/47.4/47.6/47.8/48.0/48.2/48.4/48.6/48.8/49.0/49.2/49.4/49.6/49.8/50.0/50.2/50.4/50.6/50.8/51.0/51.2/51.4/51.6/51.8/52.0/52.2/52.4/52.6/52.8/53.0/53.2/53.4/53.6/53.8/54.0/54.2/54.4/54.6/54.8/55.0/55.2/55.4/55.6/55.8/56.0/56.2/56.4/56.6/56.8/57.0/57.2/57.4/57.6/57.8/58.0/58.2/58.4/58.6/58.8/59.0/59.2/59.4/59.6/59.8/60.0/60.2/60.4/60.6/60.8/61.0/61.2/61.4/61.6/61.8/62.0/62.2/62.4/62.6/62.8/63.0/63.2/63.4/63.6/63.8/64.0/64.2/64.4/64.6/64.8/65.0/65.2/65.4/65.6/65.8/66.0/66.2/66.4/66.6/66.8/67.0/67.2/67.4/67.6/67.8/68.0/68.2/68.4/68.6/68.8/69.0/69.2/69.4/69.6/69.8/70.0/70.2/70.4/70.6/70.8/71.0/71.2/71.4/71.6/71.8/72.0/72.2/72.4/72.6/72.8/73.0/73.2/73.4/73.6/73.8/74.0/74.2/74.4/74.6/74.8/75.0/75.2/75.4/75.6/75.8/76.0/76.2/76.4/76.6/76.8/77.0/77.2/77.4/77.6/77.8/78.0/78.2/78.4/78.6/78.8/79.0/79.2/79.4/79.6/79.8/80.0/80.2/80.4/80.6/80.8/81.0/81.2/81.4/81.6/81.8/82.0/82.2/82.4/82.6/82.8/83.0/83.2/83.4/83.6/83.8/84.0/84.2/84.4/84.6/84.8/85.0/85.2/85.4/85.6/85.8/86.0/86.2/86.4/86.6/86.8/87.0/87.2/87.4/87.6/87.8/88.0/88.2/88.4/88.6/88.8/89.0/89.2/89.4/89.6/89.8/90.0/90.2/90.4/90.6/90.8/91.0/91.2/91.4/91.6/91.8/92.0/92.2/92.4/92.6/92.8/93.0/93.2/93.4/93.6/93.8/94.0/94.2/94.4/94.6/94.8/95.0/95.2/95.4/95.6/95.8/96.0/96.2/96.4/96.6/96.8/97.0/97.2/97.4/97.6/97.8/98.0/98.2/98.4/98.6/98.8/99.0/99.2/99.4/99.6/99.8/100.0/100.2/100.4/100.6/100.8/101.0/101.2/101.4/101.6/101.8/102.0/102.2/102.4/102.6/102.8/103.0/103.2/103.4/103.6/103.8/104.0/104.2/104.4/104.6/104.8/105.0/105.2/105.4/105.6/105.8/106.0/106.2/106.4/106.6/106.8/107.0/107.2/107.4/107.6/107.8/108.0/108.2/108.4/108.6/108.8/109.0/109.2/109.4/109.6/109.8/110.0/110.2/110.4/110.6/110.8/111.0/111.2/111.4/111.6/111.8/112.0/112.2/112.4/112.6/112.8/113.0/113.2/113.4/113.6/113.8/114.0/114.2/114.4/114.6/114.8/115.0/115.2/115.4/115.6/115.8/116.0/116.2/116.4/116.6/116.8/117.0/117.2/117.4/117.6/117.8/118.0/118.2/118.4/118.6/118.8/119.0/119.2/119.4/119.6/119.8/120.0/120.2/120.4/120.6/120.8/121.0/121.2/121.4/121.6/121.8/122.0/122.2/122.4/122.6/122.8/123.0/123.2/123.4/123.6/123.8/124.0/124.2/124.4/124.6/124.8/125.0/125.2/125.4/125.6/125.8/126.0/126.2/126.4/126.6/126.8/127.0/127.2/127.4/127.6/127.8/128.0/128.2/128.4/128.6/128.8/129.0/129.2/129.4/129.6/129.8/130.0/130.2/130.4/130.6/130.8/131.0/131.2/131.4/131.6/131.8/132.0/132.2/132.4/132.6/132.8/133.0/133.2/133.4/133.6/133.8/134.0/134.2/134.4/134.6/134.8/135.0/135.2/135.4/135.6/135.8/136.0/136.2/136.4/136.6/136.8/137.0/137.2/137.4/137.6/137.8/138.0/138.2/138.4/138.6/138.8/139.0/139.2/139.4/139.6/139.8/140.0/140.2/140.4/140.6/140.8/141.0/141.2/141.4/141.6/141.8/142.0/142.2/142.4/142.6/142.8/143.0/143.2/143.4/143.6/143.8/144.0/144.2/144.4/144.6/144.8/145.0/145.2/145.4/145.6/145.8/146.0/146.2/146.4/146.6/146.8/147.0/147.2/147.4/147.6/147.8/148.0/148.2/148.4/148.6/148.8/149.0/149.2/149.4/149.6/149.8/150.0/150.2/150.4/150.6/150.8/151.0/151.2/151.4/151.6/151.8/152.0/152.2/152.4/152.6/152.8/153.0/153.2/153.4/153.6/153.8/154.0/154.2/154.4/154.6/154.8/155.0/155.2/155.4/155.6/155.8/156.0/156.2/156.4/156.6/156.8/157.0/157.2/157.4/157.6/157.8/158.0/158.2/158.4/158.6/158.8/159.0/159.2/159.4/159.6/159.8/160.0/160.2/160.4/160.6/160.8/161.0/161.2/161.4/161.6/161.8/162.0/162.2/162.4/162.6/162.8/163.0/163.2/163.4/163.6/163.8/164.0/164.2/164.4/164.6/164.8/165.0/165.2/165.4/165.6/165.8/166.0/166.2/166.4/166.6/166.8/167.0/167.2/167.4/167.6/167.8/168.0/168.2/168.4/168.6/168.8/169.0/169.2/169.4/169.6/169.8/170.0/170.2/170.4/170.6/170.8/171.0/171.2/171.4/171.6/171.8/172.0/172.2/172.4/172.6/172.8/173.0/173.2/173.4/173.6/173.8/174.0/174.2/174.4/174.6/174.8/175.0/175.2/175.4/175.6/175.8/176.0/176.2/176.4/176.6/176.8/177.0/177.2/177.4/177.6/177.8/178.0/178.2/178.4/178.6/178.8/179.0/179.2/179.4/179.6/179.8/180.0/180.2/180.4/180.6/180.8/181.0/181.2/181.4/181.6/181.8/182.0/182.2/182.4/182.6/182.8/183.0/183.2/183.4/183.6/183.8/184.0/184.2/184.4/184.6/184.8/185.0/185.2/185.4/185.6/185.8/186.0/186.2/186.4/186.6/186.8/187.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IS A DONKEY BOILER FITTED? ☒

If so, is a report now forwarded? ☒

PLANS. Are approved plans forwarded herewith for Shifting *Not required*

(If not, state date of approval) *11/5. 1929. Sundry.*

Receivers *London*

Separate Tanks ☒

Donkey Boilers ☒

General Pumping Arrangements ☒

Oil Fuel Burning Arrangements ☒

SPARE GEAR 1 set of main bearing brass; 1 set of bottom end bearing brass; 1 set of main bearing brass; 4 gudgeon pins; 4 roller plates for same; 1 fuel pump complete; 1 piston complete with rings and pin; 3 set of piston rings; 1 cylinder head complete with valves; 1 set of studs and nuts for cylinder head; 1 set of valves for cooling water and lubricating pump; 24 steel ball valves; 2 sets of springs for fuel pump and injectors; 8 fuel jets; 2 governor pumps; valve for starting air; packing for injectors; 8 ignition coils; 4 electric starting plugs; 24 heater wires; 1 pump for rapid heater; valves and springs for air compressor; 1 set of air and fuel pipes; 1 set of pads for collar block.

The foregoing is a correct description,  
N.V. KROMHOUT MOTOREN FABRIEK

D. KROONHOUT

Manufacturer.

Dates of Survey while building { During progress of work in shops - 14/2 21/2 26/2 15/4 13/5 15/5 18/6 19/6 22/6 24/6 2/7 11/7 14/8  
During erection on board vessel - ☒  
Total No. of visits 13

Dates of Examination of principal parts - Cylinders 19/2 - 19/6 Covers 19/2 - 19/6 Pistons 19/2 - 22/6 Rods ☒ Connecting rods 15/4 - 24/6  
Crank shaft 15/4 - 24/6 Flywheel shaft 15/4 - 24/6 Thrust shaft 13/5 - 24/6 Intermediate shafts ☒ Tube shaft ☒  
Screw shaft ☒ Propeller ☒ Stern tube ☒ Engine seatings ☒ Engines holding down bolts ☒  
Completion of fitting sea connections ☒ Completion of pumping arrangements ☒ Engines tried under working conditions ☒  
Crank shaft, Material *Steel* Identification Mark *1418 M.C.K. 23.527* Flywheel shaft, Material *M.C.K. 23.529* Identification Mark *Steel*  
Thrust shaft, Material *Steel* Identification Mark *R.T. 1964. 1.4.29* Intermediate shafts, Material ☒ Identification Marks ☒  
Tube shaft, Material ☒ Identification Mark ☒ Screw shaft, Material ☒ Identification Mark ☒

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

Is this machinery duplicate of a previous case *Yes* If so, state name of vessel *Amst. Report. N° 10476*

General Remarks (State quality of workmanship, opinions as to class, &c.)

*The engines have been constructed under special survey in accordance with the approved plans and drawings. All material tested as required, workmanship good. Engines tried under full working conditions on test bench and good.*

The amount of Entry Fee ... £ :  
Special ... £ 240.-  
Donkey Boiler Fee ... £ :  
Travelling Expenses (if any) £ 10.-

When applied for, 19

When received, 20.8.29

Committee's Minute

FRI. 28 MAR 1930

Assigned

*See Rob. J.E. 6839*



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