

REPORT ON OIL ENGINE MACHINERY.

No. 7278

24 SEP 1952

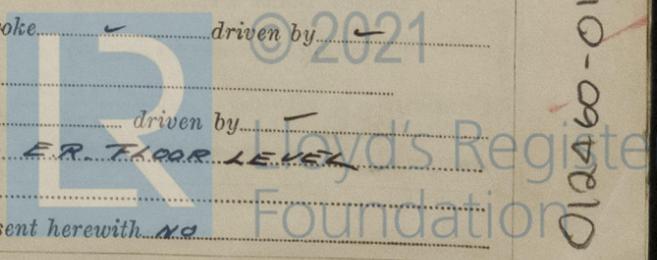
Writing Report 228-1952 When handed in at Local Office 19 Port of GRONINGEN
Survey held at DELEZYL Date, First Survey 6-5-52 Last Survey 22-8-1952
Number of Visits 31

Single on the Twin Triple Quadruple Screw vessel MY "BLEKOK" Tons Gross 1,015.3 Net 445.9
By whom built FA SEBR NIESTERN Yard No. 243 When built 1952
Made at AMSTERDAM By whom made N.V. WERKSPOR Engine No. 1234 When made 1952
Boilers made at ✓ By whom made ✓ Boiler No. ✓ When made ✓
Horse Power 430 Owners Republik Indonesia Port belonging to JAKARTA
As per Rule 86 Is Refrigerating Machinery fitted for cargo purposes NO Is Electric Light fitted YES
Which vessel is intended ✓

GINES, &c. — Type of Engines ✓ 2 or 4 stroke cycle ✓ Single or double acting ✓
Pressure in cylinders ✓ Diameter of cylinders ✓ Length of stroke ✓ No. of cylinders ✓ No. of cranks ✓
Indicated Pressure ✓ Ahead Firing Order in Cylinders ✓ Span of bearings, adjacent to the crank, measured
from edge to inner edge ✓ Is there a bearing between each crank ✓ Revolutions per minute ✓
Inertia ✓ Weight ✓ Moment of inertia of flywheel (lbs. in² or Kg. cm.²) ✓ Means of ignition ✓ Kind of fuel used ✓
Solid forged ✓ dia. of journals as per Rule ✓ Crank pin dia. ✓ Crank webs Mid. length breadth ✓ Thickness parallel to axis ✓
Semi built ✓ as fitted ✓ Mid. length thickness ✓ shrunk Thickness around eyehole ✓
All built ✓
Shaft, diameter as per Rule ✓ Intermediate Shafts, diameter as per Rule ✓ Thrust Shaft, diameter at collars as fitted ✓
as fitted ✓ as fitted ✓ as per Rule ✓
Screw Shaft, diameter as per Rule ✓ Is the tube shaft fitted with a continuous liner ✓
as fitted ✓ 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
stern tube ✓ 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-
combustible ✓ 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
shaft ✓ If so, state type ✓ Length of bearing in Stern Bush next to and supporting propeller ✓
Diameter 1515 Pitch 1195 No. of blades 4 Material BRONZE whether moveable SOLID Total developed surface ✓ sq. feet
Inertia of propeller (lbs. in² or Kg. cm.²) ✓ Kind of damper, if fitted ✓
Reversing Engines ✓ Is a governor or other arrangement fitted to prevent racing of the engine when disconnected ✓ Means of
starting ✓ Thickness of cylinder liners ✓ Are the cylinders fitted with safety valves ✓ Are the exhaust pipes and silencers water cooled
with non-conducting material ✓ If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned
into the engine ✓ Cooling Water Pumps, No. 1 ME + BALLAST Is the sea suction provided with an efficient strainer which can be cleared within the vessel ✓
Suctions worked from the Main Engines, No. 1 @ 16 1/2" Diameter ✓ Stroke ✓ Can one be overhauled while the other is at work ✓
Suctions connected to the Main Bilge Line { No. and size 1 @ 16 1/2" + 1 @ 30 1/2"
How driven ME ELECTRICALLY
Is water led to the bilges NO If so, state what special arrangements are made to deal with this water in addition to the ordinary bilge pumping
arrangements ✓
Oil Pumps, No. and size 1 @ 500 1/2 min Power Driven Lubricating Oil Pumps, including spare pump, No. and size 2 @ 5 1/2"
Independent means arranged for circulating water through the Oil Cooler YES Suctions, connected to both main bilge pumps and auxiliary
pumps, No. and size:—In machinery spaces 2 @ 2" In pump room ✓
5 @ 2" (in holds and accommodation)
Direct Power Pump Direct Suctions to the engine room bilges, No. and size 2 @ 3"
Bilge suction pipes in holds and tunnel well fitted with strum-boxes YES Are the bilge suction pipes in the machinery spaces led from easily
accessible strum-boxes, placed above the level of the working floor, with straight tail pipes to the bilges YES
Connections fitted direct on the skin of the Ship EXHAUSTS Are they fitted with valves or cocks VALVES Are they fixed
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 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 ✓
Do they pass through the bunkers ✓ How are they protected ✓
Do they pass through the deep tanks ✓ Have they been tested as per Rule ✓
Are cocks, valves and pumps in connection with the machinery and all boiler mountings accessible at all times YES
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 from one compartment to another YES Is the shaft tunnel watertight ✓ Is it fitted with a watertight door ✓ worked from ✓
In the vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork ✓
Compressors, No. 1 No. of stages 2 diameters 100-120 stroke 90 driven by ME
Air Compressors, No. 1 No. of stages 2 diameters 95-110 stroke 85 driven by ME
Auxiliary Air Compressors, No. ✓ No. of stages ✓ diameters ✓ stroke ✓ driven by ✓
Arrangement is made for first charging the air receivers HAND STARTED AUX ENGINE
Air Pumps, No. ✓ diameter ✓ stroke ✓ driven by ✓
Engines crank shafts, diameter as per Rule FRAN. HOUT. ENG. NR 12632 Position PORT ER. FLOOR LEVEL
as fitted ✓ Auxiliary engines been constructed under special survey YES, AMS PERT. DATED 10-6-52 Is a report sent herewith NO

ARW
9-10-52

012460-012472-0271



AIR RECEIVERS:—Have they been made under survey... *YES* ✓ State No. of report or certificate... *09595*
 Is each receiver, which can be isolated, fitted with a safety valve as per Rule... ✓
 Can the internal surfaces of the receivers be examined and cleaned... ✓ Is a drain fitted at the lowest part of each receiver... ✓
Injection Air Receivers, No.... ✓ Cubic capacity of each... ✓ Internal diameter... ✓ thickness... ✓
 Seamless, welded or riveted longitudinal joint... ✓ Material... ✓ Range of tensile strength... ✓ Working pressure... ✓
Starting Air Receivers, No.... ✓ Total cubic capacity... ✓ Internal diameter... ✓ thickness... ✓
 Seamless, welded or riveted longitudinal joint... ✓ Material... ✓ Range of tensile strength... ✓ Working pressure... ✓

IS A DONKEY BOILER FITTED... *NO* ✓ 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... ✓ Receivers... ✓ Separate fuel... ✓
 (If not, state date of approval)
 Donkey boilers... ✓ General pumping arrangements... ✓ Pumping arrangements in machinery space... ✓
 Oil fuel burning arrangements... ✓
 Have Torsional Vibration characteristics been approved... *YES* ✓ Date of approval... *10-3-52*

SPARE GEAR.

Has the spare gear required by the Rules been supplied... *YES* ✓
 State the principal additional spare gear supplied... ✓

The foregoing is a correct description, and the particulars of the installation as fitted are approved for torsional vibration characteristics by the Manufacturer. *Fa. GEBR. NIKSTERN & Co.*

Dates of Survey while building
 During progress of work in shops... *19 visits See a/cam Rpt. No. 13963.*
 During erection on board vessel... *1952 May 6-13, June 5-19; July 7, 10, 17, 28; Aug 1-8-11-22*
 Total No. of visits... *31*

Dates of examination of principal parts—Cylinders... ✓ Covers... ✓ Pistons... ✓ Rods... ✓ Connecting rods... ✓
 Crank shaft... ✓ Flywheel shaft... ✓ Thrust shaft... ✓ Intermediate shafts... ✓ Tube shaft... ✓
 Screw shaft... ✓ Propeller... ✓ Stern tube... ✓ Engine seatings... *10-7-52* Engine holding down bolts... ✓
 Completion of fitting sea connections... *5-6-52* Completion of pumping arrangements... *11-8-52* Engines tried under working conditions... ✓
 Crank shaft, material... ✓ Identification mark... ✓ Flywheel shaft, material... ✓ Identification mark... ✓
 Thrust shaft, material... ✓ Identification mark... ✓ Intermediate shafts, material... ✓ Identification marks... ✓
 Tube shaft, material... ✓ Identification mark... ✓ Screw shaft, material... ✓ Identification mark... ✓
 Identification marks on air receivers... ✓

Welded receivers, state Makers' Name... ✓
 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* ✓
 Description of fire extinguishing apparatus fitted... *3 FIREFORMS @ 9 LITRES* ✓
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo... *NO* ✓ 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... *BANGO - BEO*

General Remarks (State quality of workmanship, opinions as to class, Speed restrictions, &c.)
This engine and auxiliaries have been constructed and fitted under special accordance with the approved plans, Society's Rules and Secretary's letters. The workmanship was found good. The machinery has been started under full working conditions on a test and found working satisfactorily. In my opinion the machinery of this vessel merits the approval of the Committee and be recorded in the Society's Register Book.
 * LMC 8-52 - OIL ENGINE - CL

The amount of Entry Fee... £
 15 x 86 x £5.60 = £161.-
 Special ...
 Donkey Boiler Fee... £
 Travelling Expenses (if any) £11. 63.-
 When applied for... *23-9-1952*
 When received... *19*
 Engineer Surveyor to Lloyd's Register of Shipping... *[Signature]*

Committee's Minute... *TUES. 14 OCT 1952*
 Assigned... *Deposited for further spk. + LMC 8,52 Oil Eng CL*
 FRI. 30 JAN 1953

Certificates (if required) to be sent to the Surveyors are requested not to write on or below the space for Committee's Minute.
 269.52
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