

REPORT ON OIL ENGINE MACHINERY.

No. 113

Received at London Office

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Report 25th October 1949 When handed in at Local Office 19 Port of K I E L
Survey held at K I E L Date, First Survey ? Last Survey ? Number of Visits ?
Single Screw vessel "HAUKEFJELL" Tons { Gross 9838 Net 5794 5827
By whom built Sir J. Laing & Sons, Ltd. Yard No. When built 1941
By whom made Cantieri Riuniti dell Adriatico Engine No. When made
By whom made Boiler No. When made
Owners Port belonging to
Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes
vessel is intended

Type of Engines Diesel engine 2 or 4 stroke cycle 2 Single or double acting single
Pressure in cylinders 53 kg/cm² Diameter of cylinders 650 mm Length of stroke 1200 mm No. of cylinders 10 No. of cranks 10
Pressure 6,3 kg/cm² Ahead Firing Order in Cylinders 1,6,8,4,2,10,5,3,7,9 Span of bearings, adjacent to the crank, measured to inner edge 380 mm Is there a bearing between each crank yes Revolutions per minute 133

Weight 4220 kg Moment of inertia of flywheel (16 lbs. in² or Kg.cm.²) 13,970 Means of ignition airless Kind of fuel used gas oil
dia. of journals as per Rule 460 mm Crank pin dia. 460 mm Crank webs Mid. length breadth 700 mm Thickness parallel to axis 285 mm
Intermediate Shafts, diameter as per Rule 374,66 mm Thrust Shaft, diameter at collars as per Rule 460 mm
Screw Shaft, diameter as per Rule 412,77 Is the (tube screw) shaft fitted with a continuous liner yes
Thickness in way of bushes as per Rule 187 mm Thickness between bushes as per Rule Is the after end of the liner made watertight in the

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner one length
If two liners are fitted, is the shaft lapped or protected between the liners one liner
If so, state type - Length of bearing in Stern Bush next to and supporting propeller 1658 mm
Pitch 3320 mm No. of blades 4 Material manganese bronze whether moveable no Total developed surface 9,4 m² sq. feet
Pitch of propeller (16 lbs. in² or Kg.cm.²) 39.410, -kgm² Kind of damper, if fitted -

Compressed air Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Means of
Thickness of cylinder liners 55 mm Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled
Cooling Water Pumps, No. 2 fresh water pumps 2 seawater pumps Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes
Diameter - Stroke - Can one be overhauled while the other is at work
No. and size 1 bilge and ballast pump 250x300mm, 1 service pump 9"x6"x10" also transfer according to plan
How driven steam driven steam driven

Power Driven Lubricating Oil Pumps, including spare pump, No. and size 2 cross head pumps 6m³/h
2x192m³/h
Oil Cooler yes Suctions, connected to both main bilge pumps and auxiliary
In machinery spaces 5x3 1/2" 1x5" In pump room -
Power Pump Direct Suctions to the engine room bilges, No. and size 1x 250 mm

suction pipes in holds and tunnel well fitted with strum-boxes yes Are the bilge suction in the machinery spaces led from easily
Are they fitted with valves or cocks valves Are they fixed
Are the overboard discharges above or below the deep water line below
Are the blow off cocks fitted with a spigot and brass covering plate yes
How are they protected -
Have they been tested as per Rule -

Are they accessible at all times yes
Is the shaft tunnel watertight no shaft tunnel Is it fitted with a watertight door - worked from -
What means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork -
No. of stages - diameters - stroke - driven by -
No. of stages 2 diameters 150/135 mm stroke 160 mm driven by Diesel engine
No. of stages 2 diameters 80/30mm stroke 60 mm driven by Diesel eng.

the small auxiliary air compressor can be started by hand
diameter 1620 mm stroke 700 mm driven by attached to main engine
Position engine room stbd. side
Is a report sent herewith yes

002442-002448-0257

Lloyd's Register Foundation

AIR RECEIVERS:—Have they been made under survey... yes State No. of report or certificate.....
 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.....
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. 2 Total cubic capacity 13,5m³ + 5,5m³ Internal diameter 1615mm, 1654mm thickness 30 mm Surve
 Seamless, welded or riveted longitudinal joint riveted Material SM steel Range of tensile strength - Working pressure -

IS A DONKEY BOILER FITTED 2 If so, is a report now forwarded.....
 Is the donkey boiler intended to be used for domestic purposes only... yes
PLANS. Are approved plans forwarded herewith for shafting... Glasgow letter 16/8/49 Receivers... 10/5 and 16/8/49 Separate... Glasgow letters
 Donkey boilers... previously fitted General pumping arrangements... forwarded Pumping arrangements in machinery space... forwarded
 Oil fuel burning arrangements.....
 Have Torsional Vibration characteristics been approved... yes Date of approval... 16/8/49

SPARE GEAR.

Has the spare gear required by the Rules been supplied... yes
 State the principal additional spare gear supplied.....

HÜWALDISWERKE
 Aktiengesellschaft
 WERKRIEDEL

The foregoing is a correct description... Hüw Manufacturer.

Dates of Survey while building { During progress of work in shops - -
 During erection on board vessel - - - } See Report 9
 Total No. of visits.....

Dates of examination of principal parts—Cylinders..... Covers..... Pistons..... Rods..... Connecting
 Crank shaft..... Flywheel shaft..... Thrust shaft..... Intermediate shafts..... Tube shaft
 Screw shaft..... Propeller..... Stern tube..... Engine seatings..... Engine holding down bolts
 Completion of fitting sea connections..... Completion of pumping arrangements..... Engines tried under working conditions
 Crank shaft, material..... Identification mark..... Flywheel shaft, material..... Identification mark
 Thrust shaft, material..... Identification mark..... Intermediate shafts, material..... Identification mark
 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... chemical, water island
 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... No If so, state name of vessel.....

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

The quality of workmanship is good has been installed under survey, and is eligible in my opinion for class as contemplated M.B.S 9:49

The amount of Entry Fee ... £ : :
 Special ... £ : : } When applied for 19
 Donkey Boiler Fee... £ : : } When received 19
 Travelling Expenses (if any) £ : :

Y. B. S. 19
 Engineer Surveyor to Lloyd's Register

Committee's Minute.....
 Assigned... See minute on Rts

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