

REPORT ON OIL ENGINE MACHINERY.

No. 103570

Received at London Office

23 MAR 1946

of writing Report

19-3-

19

46

When handed in at Local Office

19-3-

19

46

Port of

NEWCASTLE-ON-TYNE

Survey held at

NEWCASTLE - ON - TYNE

Date, First Survey

(1945) Apr. 10th

Last Survey

15-3-

19

46

Book.

Number of Visits 49

Single
on the Twin
Triple
Quadruple

Screw vessel

TANKER.

M/Y. "NEAERA"

Tons

Gross 8254
Net 4761

Built at

HEBBURN

By whom built

R. W. HAWTHORN, LESLIE & CO LTD

Yard No. 670

When built 1946

Engines made at

NEWCASTLE

By whom made

R. W. HAWTHORN, LESLIE & CO LTD

Engine No. 4011

When made 1946

Sinker Boilers made at

WALLSEND

By whom made

NORTH EASTERN MARINE ENG. CO. LTD

Boiler No. 3094

When made 1946

Horse Power

3500

Owners

ANGLO-SAXON PETROLEUM CO LTD

Port belonging to

London

Horse Power as per Rule

502

Is Refrigerating Machinery fitted for cargo purposes

NO

Is Electric Light fitted

YES

Made for which vessel is intended

753 for M.N.

OPEN SEA

ENGINES, &c. — Type of Engines HAWTHORN - WORKSFOOT, SUPERCHARGED 2 or 4 stroke cycle 4 Single or double acting SINGLE

Maximum pressure in cylinders 700 LBS/SQ. IN. Diameter of cylinders 650" M. Length of stroke 1400" M. No. of cylinders 8 No. of cranks 8

Mean Indicated Pressure 135 LBS/SQ. IN. Diameter of cylinders 650" M. Length of stroke 1400" M. No. of cylinders 8 No. of cranks 8

Distance of bearings, adjacent to the crank, measured from inner edge to inner edge 844" M. Is there a bearing between each crank YES

Revolutions per minute 120 Flywheel dia. 2260" M. Weight 6000 KG Means of ignition COMPRESSION Kind of fuel used HEAVY OIL FUEL

Crank pin dia. 448" M. Crank pin dia. 460" M. Crank webs Mid. length breadth 870" M. Thickness parallel to axis 267 & 290" M

Crank pin dia. 448" M. Crank pin dia. 460" M. Crank webs Mid. length thickness 267" M. Thickness around eyehole 203" M

Flywheel Shaft, diameter as per Rule 448" M. Intermediate Shafts, diameter as per Rule 325" M. Thrust Shaft, diameter at collars as fitted 341" M

Flywheel Shaft, diameter as fitted 460" M. Intermediate Shafts, diameter as fitted 470" M. Thrust Shaft, diameter at collars as per Rule 460" M

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AIR RECEIVERS:—Have they been made under survey ☒ Ex *M/TROCAS*.

State No. of report or certificate. *NO 55. LLOYDS. 725486/8. WA 450486/8. JS. 1-4-2*

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.*

Injection Air Receivers, No. ☒

Cubic capacity of each. ☒

Internal diameter. ☒

thickness. ☒

Seamless, lap welded or riveted longitudinal joint. ☒

Material. ☒

Range of tensile strength. ☒

Working pressure. ☒

Starting Air Receivers, No. *ONE.*

Total cubic capacity. *500*

Internal diameter. *PLEASE SEE 'TROCAS' 1ST ENTRY REPORT*

thickness. *350*

Seamless, lap welded or riveted longitudinal joint. *Riveted*

Material. *TWO BOILERS*

Range of tensile strength. *Yes*

Working pressure. *Actual 350*

IS A DONKEY BOILER FITTED *YES.*

If so, is a report now forwarded. *Yes*

Is the donkey boiler intended to be used for domestic purposes only. *NO.*

PLANS. Are approved plans forwarded herewith for shafting. *No - 22-4-43. 23-3-44*

(If not, state date of approval)

Donkey boilers. *20-6-45*

General pumping arrangements. *12-2-44.*

Receivers. Ex *TROCAS*. Separate fuel tanks. ☒

Oil fuel burning arrangements. *28-8-42 11-7-45*

Pumping arrangements in machinery space. *25-6-42.*

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.

FOR R. & W. HAWTHORN, LESLIE & CO. LD

Manufacturer.

Dates of Survey while building

During progress of work in shops -

During erection on board vessel -

Total No. of visits. *49*

Dates of examination of principal parts—Cylinders. *1-8-45 - 3-10-45* Pistons. *26-8-45 - 6-11-45* Rods. *23-7-45.* Connecting rods. *29-8-45.*

Crank shaft. *21-9-45.* Flywheel shaft. *20-11-45.* Thrust shaft. *20-4-45.* Intermediate shafts. *1-11-45.* Tube shaft. *1-11-45.*

Screw shaft. *24-10-45.* Propeller. *9-11-45.* Stern tube. *2-11-45.* Engine scatings. *15-3-46.* Engine holding down bolts. *3-1-45.*

Completion of fitting sea connections. *31-10-45.* Completion of pumping arrangements. *5-2-45* Engines tried under working conditions. *15-3-46.*

Crank shaft, material. *O.H.* Identification mark. *14666.F5924.* Flywheel shaft, material. *O.H.* Identification mark. *14271.F6122.*

Thrust shaft, material. *O.H.* Identification mark. *13213. 3169.* Intermediate shafts, material. *O.H.* Identification marks. *3.3332.*

Tube shaft, material. *O.H.* Identification mark. *3.3202.* Screw shaft, material. *O.H.* Identification mark. *3.3202.*

Identification marks on air receivers. Ex *TROCAS*. Examined internally and under water pressure 550 LBS/SQ. INCH. found tight and in good condition.

MARKED RETEST. LLOYDS. 550 LBS/SQ. INCH. WA 350 486/8. JWW. 11-12-45.

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. *Steam apparatus as per Rule also 2-10-45. 2-11-45. 2-12-45. 2-1-46. 2-2-46. 2-3-46. 2-4-46. 2-5-46. 2-6-46. 2-7-46. 2-8-46. 2-9-46. 2-10-46. 2-11-46. 2-12-46. 2-1-47. 2-2-47. 2-3-47. 2-4-47. 2-5-47. 2-6-47. 2-7-47. 2-8-47. 2-9-47. 2-10-47. 2-11-47. 2-12-47. 2-1-48. 2-2-48. 2-3-48. 2-4-48. 2-5-48. 2-6-48. 2-7-48. 2-8-48. 2-9-48. 2-10-48. 2-11-48. 2-12-48. 2-1-49. 2-2-49. 2-3-49. 2-4-49. 2-5-49. 2-6-49. 2-7-49. 2-8-49. 2-9-49. 2-10-49. 2-11-49. 2-12-49. 2-1-50. 2-2-50. 2-3-50. 2-4-50. 2-5-50. 2-6-50. 2-7-50. 2-8-50. 2-9-50. 2-10-50. 2-11-50. 2-12-50. 2-1-51. 2-2-51. 2-3-51. 2-4-51. 2-5-51. 2-6-51. 2-7-51. 2-8-51. 2-9-51. 2-10-51. 2-11-51. 2-12-51. 2-1-52. 2-2-52. 2-3-52. 2-4-52. 2-5-52. 2-6-52. 2-7-52. 2-8-52. 2-9-52. 2-10-52. 2-11-52. 2-12-52. 2-1-53. 2-2-53. 2-3-53. 2-4-53. 2-5-53. 2-6-53. 2-7-53. 2-8-53. 2-9-53. 2-10-53. 2-11-53. 2-12-53. 2-1-54. 2-2-54. 2-3-54. 2-4-54. 2-5-54. 2-6-54. 2-7-54. 2-8-54. 2-9-54. 2-10-54. 2-11-54. 2-12-54. 2-1-55. 2-2-55. 2-3-55. 2-4-55. 2-5-55. 2-6-55. 2-7-55. 2-8-55. 2-9-55. 2-10-55. 2-11-55. 2-12-55. 2-1-56. 2-2-56. 2-3-56. 2-4-56. 2-5-56. 2-6-56. 2-7-56. 2-8-56. 2-9-56. 2-10-56. 2-11-56. 2-12-56. 2-1-57. 2-2-57. 2-3-57. 2-4-57. 2-5-57. 2-6-57. 2-7-57. 2-8-57. 2-9-57. 2-10-57. 2-11-57. 2-12-57. 2-1-58. 2-2-58. 2-3-58. 2-4-58. 2-5-58. 2-6-58. 2-7-58. 2-8-58. 2-9-58. 2-10-58. 2-11-58. 2-12-58. 2-1-59. 2-2-59. 2-3-59. 2-4-59. 2-5-59. 2-6-59. 2-7-59. 2-8-59. 2-9-59. 2-10-59. 2-11-59. 2-12-59. 2-1-60. 2-2-60. 2-3-60. 2-4-60. 2-5-60. 2-6-60. 2-7-60. 2-8-60. 2-9-60. 2-10-60. 2-11-60. 2-12-60. 2-1-61. 2-2-61. 2-3-61. 2-4-61. 2-5-61. 2-6-61. 2-7-61. 2-8-61. 2-9-61. 2-10-61. 2-11-61. 2-12-61. 2-1-62. 2-2-62. 2-3-62. 2-4-62. 2-5-62. 2-6-62. 2-7-62. 2-8-62. 2-9-62. 2-10-62. 2-11-62. 2-12-62. 2-1-63. 2-2-63. 2-3-63. 2-4-63. 2-5-63. 2-6-63. 2-7-63. 2-8-63. 2-9-63. 2-10-63. 2-11-63. 2-12-63. 2-1-64. 2-2-64. 2-3-64. 2-4-64. 2-5-64. 2-6-64. 2-7-64. 2-8-64. 2-9-64. 2-10-64. 2-11-64. 2-12-64. 2-1-65. 2-2-65. 2-3-65. 2-4-65. 2-5-65. 2-6-65. 2-7-65. 2-8-65. 2-9-65. 2-10-65. 2-11-65. 2-12-65. 2-1-66. 2-2-66. 2-3-66. 2-4-66. 2-5-66. 2-6-66. 2-7-66. 2-8-66. 2-9-66. 2-10-66. 2-11-66. 2-12-66. 2-1-67. 2-2-67. 2-3-67. 2-4-67. 2-5-67. 2-6-67. 2-7-67. 2-8-67. 2-9-67. 2-10-67. 2-11-67. 2-12-67. 2-1-68. 2-2-68. 2-3-68. 2-4-68. 2-5-68. 2-6-68. 2-7-68. 2-8-68. 2-9-68. 2-10-68. 2-11-68. 2-12-68. 2-1-69. 2-2-69. 2-3-69. 2-4-69. 2-5-69. 2-6-69. 2-7-69. 2-8-69. 2-9-69. 2-10-69. 2-11-69. 2-12-69. 2-1-70. 2-2-70. 2-3-70. 2-4-70. 2-5-70. 2-6-70. 2-7-70. 2-8-70. 2-9-70. 2-10-70. 2-11-70. 2-12-70. 2-1-71. 2-2-71. 2-3-71. 2-4-71. 2-5-71. 2-6-71. 2-7-71. 2-8-71. 2-9-71. 2-10-71. 2-11-71. 2-12-71. 2-1-72. 2-2-72. 2-3-72. 2-4-72. 2-5-72. 2-6-72. 2-7-72. 2-8-72. 2-9-72. 2-10-72. 2-11-72. 2-12-72. 2-1-73. 2-2-73. 2-3-73. 2-4-73. 2-5-73. 2-6-73. 2-7-73. 2-8-73. 2-9-73. 2-10-73. 2-11-73. 2-12-73. 2-1-74. 2-2-74. 2-3-74. 2-4-74. 2-5-74. 2-6-74. 2-7-74. 2-8-74. 2-9-74. 2-10-74. 2-11-74. 2-12-74. 2-1-75. 2-2-75. 2-3-75. 2-4-75. 2-5-75. 2-6-75. 2-7-75. 2-8-75. 2-9-75. 2-10-75. 2-11-75. 2-12-75. 2-1-76. 2-2-76. 2-3-76. 2-4-76. 2-5-76. 2-6-76. 2-7-76. 2-8-76. 2-9-76. 2-10-76. 2-11-76. 2-12-76. 2-1-77. 2-2-77. 2-3-77. 2-4-77. 2-5-77. 2-6-77. 2-7-77. 2-8-77. 2-9-77. 2-10-77. 2-11-77. 2-12-77. 2-1-78. 2-2-78. 2-3-78. 2-4-78. 2-5-78. 2-6-78. 2-7-78. 2-8-78. 2-9-78. 2-10-78. 2-11-78. 2-12-78. 2-1-79. 2-2-79. 2-3-79. 2-4-79. 2-5-79. 2-6-79. 2-7-79. 2-8-79. 2-9-79. 2-10-79. 2-11-79. 2-12-79. 2-1-80. 2-2-80. 2-3-80. 2-4-80. 2-5-80. 2-6-80. 2-7-80. 2-8-80. 2-9-80. 2-10-80. 2-11-80. 2-12-80. 2-1-81. 2-2-81. 2-3-81. 2-4-81. 2-5-81. 2-6-81. 2-7-81. 2-8-81. 2-9-81. 2-10-81. 2-11-81. 2-12-81. 2-1-82. 2-2-82. 2-3-82. 2-4-82. 2-5-82. 2-6-82. 2-7-82. 2-8-82. 2-9-82. 2-10-82. 2-11-82. 2-12-82. 2-1-83. 2-2-83. 2-3-83. 2-4-83. 2-5-83. 2-6-83. 2-7-83. 2-8-83. 2-9-83. 2-10-83. 2-11-83. 2-12-83. 2-1-84. 2-2-84. 2-3-84. 2-4-84. 2-5-84. 2-6-84. 2-7-84. 2-8-84. 2-9-84. 2-10-84. 2-11-84. 2-12-84. 2-1-85. 2-2-85. 2-3-85. 2-4-85. 2-5-85. 2-6-85. 2-7-85. 2-8-85. 2-9-85. 2-10-85. 2-11-85. 2-12-85. 2-1-86. 2-2-86. 2-3-86. 2-4-86. 2-5-86. 2-6-86. 2-7-86. 2-8-86. 2-9-86. 2-10-86. 2-11-86. 2-12-86. 2-1-87. 2-2-87. 2-3-87. 2-4-87. 2-5-87. 2-6-87. 2-7-87. 2-8-87. 2-9-87. 2-10-87. 2-11-87. 2-12-87. 2-1-88. 2-2-88. 2-3-88. 2-4-88. 2-5-88. 2-6-88. 2-7-88. 2-8-88. 2-9-88. 2-10-88. 2-11-88. 2-12-88. 2-1-89. 2-2-89. 2-3-89. 2-4-89. 2-5-89. 2-6-89. 2-7-89. 2-8-89. 2-9-89. 2-10-89. 2-11-89. 2-12-89. 2-1-90. 2-2-90. 2-3-90. 2-4-90. 2-5-90. 2-6-90. 2-7-90. 2-8-90. 2-9-90. 2-10-90. 2-11-90. 2-12-90. 2-1-91. 2-2-91. 2-3-91. 2-4-91. 2-5-91. 2-6-91. 2-7-91. 2-8-91. 2-9-91. 2-10-91. 2-11-91. 2-12-91. 2-1-92. 2-2-92. 2-3-92. 2-4-92. 2-5-92. 2-6-92. 2-7-92. 2-8-92. 2-9-92. 2-10-92. 2-11-92. 2-12-92. 2-1-93. 2-2-93. 2-3-93. 2-4-93. 2-5-93. 2-6-93. 2-7-93. 2-8-93. 2-9-93. 2-10-93. 2-11-93. 2-12-93. 2-1-94. 2-2-94. 2-3-94. 2-4-94. 2-5-94. 2-6-94. 2-7-94. 2-8-94. 2-9-94. 2-10-94. 2-11-94. 2-12-94. 2-1-95. 2-2-95. 2-3-95. 2-4-95. 2-5-95. 2-6-95. 2-7-95. 2-8-95. 2-9-95. 2-10-95. 2-11-95. 2-12-95. 2-1-96. 2-2-96. 2-3-96. 2-4-96. 2-5-96. 2-6-96. 2-7-96. 2-8-96. 2-9-96. 2-10-96. 2-11-96. 2-12-96. 2-1-97. 2-2-97. 2-3-97. 2-4-97. 2-5-97. 2-6-97. 2-7-97. 2-8-97. 2-9-97. 2-10-97. 2-11-97. 2-12-97. 2-1-98. 2-2-98. 2-3-98. 2-4-98. 2-5-98. 2-6-98. 2-7-98. 2-8-98. 2-9-98. 2-10-98. 2-11-98. 2-12-98. 2-1-99. 2-2-99. 2-3-99. 2-4-99. 2-5-99. 2-6-99. 2-7-99. 2-8-99. 2-9-99. 2-10-99. 2-11-99. 2-12-99. 2-1-100. 2-2-100. 2-3-100. 2-4-100. 2-5-100. 2-6-100. 2-7-100. 2-8-100. 2-9-100. 2-10-100. 2-11-100. 2-12-100.*

Is the vessel (not being an oil tanker) fitted for carrying oil as cargo. *TANKER.* If so, have the requirements of the Rules been complied with. *YES.*

If the notation for ice strengthening is desired, state whether the requirements in this respect have been complied with. *YES.*

Is this machinery duplicate of a previous case. *YES.* If so, state name of vessel. *"NAVICELLA"*

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

The Machinery of this vessel has been constructed and fitted on board under special survey. The Materials and workmanship are good.

Satisfactory Run + Sea Trials were witnessed & the Machinery is eligible in our opinion for the second + LMC 3-46. and the notations T.S. 66. OIL ENG. Mach. life. 2-88-180 lb.

Survey Report etc attached

The amount of Entry Fee ... £6

Special ... £100 : 2

Donkey Boiler Fee ... £4

STARTING AIR RECEIVER ... £4

Travelling Expenses (if any) £0

When applied for 18/3/46

When received 19

(The Committee's Minute

Assigned + LMC 3.46 Oil Eng.

FRI. 12 APR 1946

C.L. 2 DB 18016.

Lloyd's Register Foundation