

Rpt. 4c

Date of writing report 4th Jan. 1960

Received London

Port ANTWERP

No.

28 JAN 1960
35215

Survey held at Tamise

No. of visits 9

First date 23.6.59.

Last date 3.12.59.

FIRST ENTRY REPORT ON AUXILIARY INTERNAL COMBUSTION ENGINES

Name of Ship m.v. "HECTOR HAWK"
(Or Contract No. if name unknown).Owners / Hector Whaling Ltd.
(Or Consignees)

Ship Built at Tamise, Belgium

by J. Boel & Son S.A.

when 1959-12

Yard No. 1362

Auxiliary Engines or Gas Turbines made at Bedford

by W.H. Allen Sons & Co. Ltd

when 1959

Eng. Nos. K3/92072/A/B/C.

Total No. of sets and description (including type name) Three diesel engine driven alternator sets type 5 S 37C.

INTERNAL COMBUSTION RECIPROCATING ENGINES. No. of cylinders per engine..... Dia. of cylinders..... Stroke.....
 2 or 4 stroke cycle..... Maximum approved BHP..... at..... RPM Corresponding MIP..... Maximum pressure.....
 Fuel..... Are cylinders arranged in Vee or other special formation?..... If so, No. of
 crankshafts per engine..... Is engine of opposed piston type?..... No. and type of mechanically driven scavenge pumps or blowers
 per engine..... No. of exhaust gas driven blowers or superchargers per engine..... Is welded construction
 used for: Bedplate?..... Entablature?..... Total internal volume of crankcase (if 20 cu. ft. or over)..... No. and total area of
 crankcase explosion relief devices..... Are flame guards or traps fitted?..... Cooling medium for: Cylinders.....
 Pistons..... No. of attached pumps: F.W. cooling..... S.W. cooling..... Lubricating oil..... How is engine started?.....

SHAFTING. Is a damper or defuner fitted?..... No. of main bearings..... Are bearings of ball or roller type?..... Distance between
 inner edges of bearings in way of cranks..... Crankshaft: Built, semi-built, solid. Material of crankshaft..... Approved
 minimum tensile strength..... Dia. of pins..... Journals..... Breadth of webs at mid throw..... Axial
 thickness..... If shrunk, radial thickness around eyeholes..... Dia. of flywheel..... Weight..... Are balance
 weights fitted?..... Total weight..... Rad. of gyration..... Dia. of flywheel shaft.....
 Has each engine been tested in shop?..... How long at full power?..... Was it tested with driven machinery attached?..... Was the
 governing tested and found satisfactory?..... Date of approval of torsional vibration characteristics (for engines of 150 BHP and over).....
 Date of approval of shafting..... Identification marks on shafting.....

Particulars of driven machinery

Port and No. of Certificate for Starting Air Receivers

AUXILIARY GAS TURBINES. BHP per set..... At..... RPM of output shaft. Open or closed cycle?.....
 Arrangement of turbines. HP drives..... at..... RPM HP gas inlet temp..... pressure.....
 (A small diagram should be attached showing gas cycle) IP .. at .. IP
 LP .. at .. LP
 No. of air compressors per set..... Centrifugal or axial flow type?..... Material of turbine blades.....
 Material of compressor blades..... No. of air coolers per set..... No. of heat exchangers per set..... How are
 turbines started?..... Are the turbines operated in conjunction with free piston gas generators?.....
 Total No. of free piston gas generators..... Dia. of working pistons..... Dia. of compressor pistons..... No. of double strokes
 per minute at full power..... Gas delivery pressure..... Gas delivery temperature.....
 Have the turbines and attached equipment been tested in shop?..... How long at full power?..... Were they tested with driven machinery
 attached?..... Particulars of gearing.....
 Date of approval of plans..... Identification marks..... Particulars of driven machinery.....

ELECTRIC GENERATORS. Port and No. of Certificate for generators of 100 Kw. and over..... London Rpt. N°. D64592/2/3/4.....
 For generators under 100 Kw., has Makers' Certificate been obtained?..... Are Certificates attached?.....

The foregoing description is correct and the particulars are as approved for torsional vibration characteristics (strike out words not applicable)

Manufacturer

Is this machinery duplicate of a previous case?..... no. If so, which?.....

GENERAL REMARKS. State if the machinery has been constructed under special survey in accordance with the Rules, approved plans and Secretary's letters.
 State quality of materials and workmanship. Where existing machinery is submitted for classification the circumstances should be explained as fully as possible.

Survey Fee.....

Expenses.....

Date when a/c rendered..... 12TH JAN. 1960.

Engineer Surveyor to Lloyd's Register

Declaration to be signed by Surveyor at fitting-out Port:— The above described machinery has been fitted on board the m.v. "HECTOR HAWK".
 at Tamise Belgium..... in a proper manner and found satisfactory when tested on the (date) 6-11-59..... under full working conditions.

J. M. O. FORBES
Engineer Surveyor to Lloyd's Register

014451-014462-0190