

# REPORT ON BOILERS.

No. 35215

Received at London Office

Date of writing Report 4th Jan. 1960 When handed in at Local Office 10.1. 1960 Port of Antwerp

Survey held at Tamise/ Date, First Survey 17/6/59. Last Survey 5/12/ 1959

on the m.v. "HECTOR HAWK" (Number of Visits 12) Tons { Gross 16300 Net

at Tamise, Belgium By whom built J. Boel & Son S/A. Yard No. 1362 When built 1959-12

ines made at Copenhagen By whom made Messrs. Burmeister & Wain Engine No. 6488 When made 1959-2

ers made at Birmingham By whom made Wrights Forge & Eng. Co. Ltd. Boiler No. J.2431 When made 1959

ners Hector Whaling Ltd. Port belonging to London

## VERTICAL BOILER.

By whom made \_\_\_\_\_ Boiler No. \_\_\_\_\_ When made \_\_\_\_\_ Where fixed \_\_\_\_\_

Manufacturers of Steel \_\_\_\_\_

al Heating Surface of each Boiler \_\_\_\_\_ Is forced draught fitted \_\_\_\_\_ Coal or Oil fired \_\_\_\_\_

and Description of Boilers \_\_\_\_\_ Working Pressure \_\_\_\_\_

led by hydraulic pressure to \_\_\_\_\_ Date of test \_\_\_\_\_ No. of Certificate \_\_\_\_\_

of fire grate in each Boiler \_\_\_\_\_ No. and description of safety valves to each boiler \_\_\_\_\_

of each set of valves per boiler { per Rule \_\_\_\_\_ as fitted \_\_\_\_\_ Pressure to which they are adjusted \_\_\_\_\_ Are they fitted with easing gear \_\_\_\_\_

whether steam from main boilers can enter the donkey boiler \_\_\_\_\_ Smallest distance between boiler or uptake and bunkers \_\_\_\_\_

woodwork \_\_\_\_\_ Is oil fuel carried in the double bottom under boiler \_\_\_\_\_ Smallest distance between base of boiler and tank top plating \_\_\_\_\_

Is the base of the boiler insulated \_\_\_\_\_ Largest internal dia. of boiler \_\_\_\_\_ Height \_\_\_\_\_

l plates: Material \_\_\_\_\_ Tensile strength \_\_\_\_\_ Thickness \_\_\_\_\_

the shell plates welded or flanged \_\_\_\_\_ If fusion welded, state name of welding firm \_\_\_\_\_

all the requirements of the Rules for Class I vessels been complied with \_\_\_\_\_ Description of riveting: circ. seams { end \_\_\_\_\_ inter \_\_\_\_\_

seams \_\_\_\_\_ Dia. of rivet holes in { circ. seams \_\_\_\_\_ long. seams \_\_\_\_\_ Pitch of rivets { \_\_\_\_\_ Thickness of butt straps { outer \_\_\_\_\_ inner \_\_\_\_\_

ll Crown: Whether complete hemisphere, dished partial spherical, or flat \_\_\_\_\_ Material \_\_\_\_\_ Tensile strength \_\_\_\_\_ Thickness \_\_\_\_\_

Description of Furnace: Plain, spherical, or dished crown \_\_\_\_\_ Material \_\_\_\_\_

ile strength \_\_\_\_\_ Thickness \_\_\_\_\_ External diameter { top \_\_\_\_\_ bottom \_\_\_\_\_ Length as per Rule \_\_\_\_\_

of support stays circumferentially \_\_\_\_\_ and vertically \_\_\_\_\_ Are stays fitted with nuts or riveted over \_\_\_\_\_

eter of stays over thread \_\_\_\_\_ Radius of spherical or dished furnace crown \_\_\_\_\_

ness of Ogee Ring \_\_\_\_\_ Diameter as per Rule { D \_\_\_\_\_ d \_\_\_\_\_

ustion Chamber: Material \_\_\_\_\_ Tensile strength \_\_\_\_\_ Thickness of top plate \_\_\_\_\_

as if dished \_\_\_\_\_ Thickness of back plate \_\_\_\_\_ Diameter if circular \_\_\_\_\_

h as per Rule \_\_\_\_\_ Pitch of stays \_\_\_\_\_

ays fitted with nuts or riveted over \_\_\_\_\_ Diameter of stays over thread \_\_\_\_\_

Plates: Material { front \_\_\_\_\_ back \_\_\_\_\_ Tensile strength { \_\_\_\_\_ Thickness { \_\_\_\_\_ Mean pitch of stay tubes in nests \_\_\_\_\_

prising shell, dia. as per Rule { front \_\_\_\_\_ back \_\_\_\_\_ Pitch in outer vertical rows { \_\_\_\_\_ Dia. of tube holes FRONT { stay \_\_\_\_\_ plain \_\_\_\_\_ BACK { stay \_\_\_\_\_ plain \_\_\_\_\_

h alternate tube in outer vertical rows a stay tube \_\_\_\_\_

rs to Combustion Chamber Tops: Material \_\_\_\_\_ Tensile strength \_\_\_\_\_

and thickness of girder at centre \_\_\_\_\_ Length as per Rule \_\_\_\_\_

ce apart \_\_\_\_\_ No. and pitch of stays in each \_\_\_\_\_

REFERENCE BIRMINGHAM REPORT No. 478

Crown Stays: Material..... Tensile strength..... Diameter { at body of stay, or over threads.....

No. of threads per inch..... Screw Stays: Material..... Tensile strength.....

Diameter { at turned off part, or over threads..... No. of threads per inch..... Are the stays drilled at the outer ends.....

Tubes: Material..... External diameter { plain..... stay..... Thickness { .....

No. of threads per inch..... Pitch of tubes.....

Manhole Compensation: Size of opening in shell plate..... Section of compensating ring..... No. of rivets and dia of rivet holes..... Outer row rivet pitch at ends..... Depth of flange if manhole flanged.....

Uptake: External diameter..... Thickness of uptake plate.....

Cross Tubes: No..... External diameters { .....

Have all the requirements of Sections 14 to 22 inclusive for boilers been complied with.....

The foregoing is a correct description,

Dates of Survey while building { During progress of work in shops - - } Is the approved plan of boiler forwarded herewith (If not state date of approval.) During erection on board vessel - - - 1959 June 12, 24, Oct. 14, 22, 28, 29, 30, Nov. 10, Dec. 1, 2, 3, 5. Total No. of visits 14

Is this Boiler a duplicate of a previous case..... No..... If so, state Vessel's name and Report No.....

GENERAL REMARKS (State quality of workmanship, opinions as to class, &c.).....

This boiler has been installed in the above vessel under the Special Survey of the Society's Rules. The safety valves have been adjusted under steam to the pressure noted above and a satisfactory accumulation test has been carried out.

Survey Fee ... .. £ : When applied for 12. 1. 1960 Travelling Expenses (if any) £ See Rpt. 4p: : When received 19

Date FRIDAY - 4 MAR 1960

Committee's Minute See Rpt. 1.

John W. D. Forbes Engineer Surveyor to Lloyd's Register of Shipping

