

REPORT ON OIL ENGINE MACHINERY.

No. 92560

Received at London Office 21

20 AUG 1935 Port of NEWCASTLE-ON-TYNE

12/8/35 When handed in at Local Office

Date, First Survey 3 June 1935 Last Survey 10/8/1935

Survey held at Newcastle

Number of Visits 26

on the ^{Single} Twin ^{Triple} Screw vessel

M. V. JOSEPH MEDILL

Tons { Gross 2087 Net 1607

at Newcastle

By whom built Swan, Hunter & Wigham Richardson Ltd. Yard No. 1504 When built 1935

By whom made M. A. N. A/G Engine No. When made 1935

Boilers made at Augsburg, Germany

By whom made Boiler No. When made

Boilers made at None

Owners Quebec & Ontario Transportation Co. Ltd. Port belonging to Montreal

Horse Power 1200/1000

Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted yes

Horse Power as per Rule 245

ENGINE, &c. Type of Engines Heavy Oil, trunk piston solid injection 2 or 4 stroke cycle 2 Single or double acting S.A.

Indicated Pressure 5.6 Kgs. Diameter of cylinders 300 mm Length of stroke 420 mm No. of cylinders 10 No. of cranks 10

Revolutions per minute 375/353 Flywheel dia. 1000 mm Weight 1000 Kgs. Means of ignition Compression Kind of fuel used Diesel Oil

Crank Shaft, dia. of journals as per Rule 190 mm Crank pin dia. 190 mm Crank Webs Mid. length breadth 300 mm Mid. length thickness 96 mm

Wheel Shaft, diameter as per Rule on engine Coupling Intermediate shafts, diameter as per Rule 121 mm Thrust Shaft, diameter at collars as per Rule on crank shaft

Screw Shaft, diameter as per Rule 5.22" Is the screw shaft fitted with a continuous liner yes

Liners, thickness in way of bushes as per Rule 1/2" Thickness between bushes as per Rule 4.3" Is the after end of the liner made watertight in the stern tube yes

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner one length

Is an approved Oil Gland or other appliance fitted at the after end of the liner tight fit

Length of Bearing in Stern Bush next to and supporting propeller 2'-0"

Propeller, dia. 5'-3 1/2" Pitch 4'-0" No. of blades 4 Material Bronze whether Moveable Solid Total Developed Surface 11.9 sq. feet

Means of reversing Engines Compressed Air Is a governor or other arrangement fitted to prevent racing of the engine when deaccelerated yes

Are the cylinders fitted with safety valves yes Are the exhaust pipes and silencers water cooled or lagged with lagged

Is the sea suction provided with an efficient strainer which can be cleared within the vessel yes

Can one be overhauled while the other is at work yes

How driven From shaft Motor

Are they fitted with Valves or Cocks Both

Are the Overboard Discharges above or below the deep water line Above

Are the Blow Off Cocks fitted with a spigot and brass covering plate

How are they protected

Have they been tested as per Rule

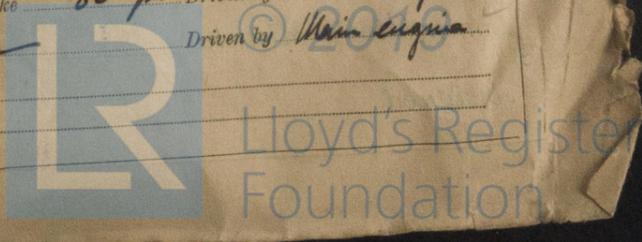
Is the Shaft Tunnel watertight None Is it fitted with a watertight door

Is it worked from

Are they fitted with a watertight door

Are they worked from

W475-0012



Smaller penetration in head water in 30/8/35

AIR RECEIVERS:—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 *yes* Is a drain fitted at the lowest part of each receiver *yes*

High Pressure Air Receivers, No. *None* 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. *2* Total cubic capacity *180 cu ft* Internal diameter *3'-6"* thickness *11/16"*

Seamless, lap welded or riveted longitudinal joint *T.R.P.S. S.P.P.* Material *Steel* Range of tensile strength *29/33* Working pressure *by Rules 432 Actual 427*

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 *yes* Receivers *yes* Separate Tanks *yes*

Donkey Boilers *✓* General Pumping Arrangements *yes* Oil Fuel Burning Arrangements *✓*

SPARE GEAR.

Has the spare gear required by the Rules been supplied *yes*

State the principal additional spare gear supplied *2 Propellers, 1 set bearing liners, 1 Brush holder + 1 set of brushes for generator; 1 line brush holder + 1 set brushes each for Stand-by lub. oil pump and oil fuel transfer pump; 1 pump impeller, 1 set of brushes + 1 impeller spindle each for General Service pump + Stand-By Cooling Water pump.*

FOR THE MANAGER, HUNTER & WIGMORE ENGINEERS LTD.
The foregoing is a correct description,

G. F. Stueby Manufacturer.
DIRECTOR

Dates of Survey while building

During progress of work in shops - - *1935.*

During erection on board vessel - - *June. 3, 5, 6, 7, 11, 12, 13, 14, 17, (18), 19, 28, July. 3, 5, 8, 9, 18, 22, 23, 24, 25, 26, 30, Aug. 9, 10.*

Total No. of visits *26*

Dates of Examination of principal parts—Cylinders *✓* Covers *✓* Pistons *✓* Rods *✓* Connecting rods *✓*

Crank shaft *✓* Flywheel shaft *✓* Thrust shaft *✓* Intermediate shafts *19-6-35* Tube shaft *✓*

Screw shaft *19-6-35* Propeller *19-6-35* Stern tube *28/6/35* Engine seatings *19-6-35* Engines holding down bolts *26/4/35*

Completion of fitting sea connections *19-6-35* Completion of pumping arrangements *30-7-35* Engines tried under working conditions *30-7-35*

Crank shaft, Material *✓* Identification Mark *✓* Flywheel shaft, Material *✓* Identification Mark *✓*

Thrust shaft, Material *✓* Identification Mark *✓* Intermediate shafts, Material *Steel* Identification Marks *4920 J.*

Tube shaft, Material *✓* Identification Mark *✓* Screw shaft, Material *Steel* Identification Mark *4920 J.*

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.*

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 *No* If so, state name of vessel *✓*

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

The machinery of this vessel has been constructed under special supervision in accordance with the Rules of this Society and approved plans. The materials and workmanship are good. The machinery has been installed on board and satisfactorily tested under working conditions. The vessel is eligible in my opinion to have the record of + L.M.C. 8-35 and notation T.S.C.L.

The amount of Entry Fee

Special ... *1.4* £ *13 : 0-0* When applied for, *20 AUG 1935*

Donkey Boiler Fee ... £ *4 : 4-0* When received, *24.8.35*

Travelling Expenses (if any) £ *✓* *26/8*

A. Riddell
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

+ L.M.C. 8-35 oil Eng
CH



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