

## REPORT ON OIL ENGINE MACHINERY.

2 OCT 1930 19244

Received at London Office

2 OCT 1930

Date of writing Report

28.4

19

When handed in at Local Office 26<sup>th</sup> SEPTEMBER, 1930 Port of

Greenock

Date in Survey held at

Greenock

Date, First Survey 14<sup>th</sup> JANUARY, 1930.Last Survey 26<sup>th</sup> SEPTEMBER 1930.

Log Book.

Number of Visits 80.

on the

Single

Screw vessel

S "El Mirlo"

Tons { Gross 8088  
Net 4930

Built at

Glasgow

By whom built

Blyth Wood Stacks

Yard No.

29

When built

1930

Engines made at

Greenock

By whom made

John & Maccaud L<sup>o</sup>

Engine No.

116

When made

1930

Boilers made at

Greenock

By whom made

John & Maccaud L<sup>o</sup>

Boiler No.

115

When made

1930

Horse Power

2625

Owners

Lobitos Oil Fields L<sup>o</sup>

Port belonging to

London

Horse Power as per Rule

653

Is Refrigerating Machinery fitted for cargo purposes

870

Is Electric Light fitted

yes

Made for which vessel is intended

652

Foreign

29 1/2 - 59 1/2

ENGINES, &c.—Type of Engines Burner & Chain 2 or 4 stroke cycle 4 Single or double acting SingleMaximum pressure in cylinders 500 Diameter of cylinders 740 mm Length of stroke 1500 mm No. of cylinders 8 No. of cranks 8Pitch of bearings, adjacent to the Crank, measured from inner edge to inner edge 990 mm Is there a bearing between each crank yesRevolutions per minute 115 Flywheel dia. 2489 mm Weight 2414 kgs Means of ignition Compression Kind of fuel used DistilCrank Shaft, dia. of journals as per Rule 480.69 mm Crank pin dia. 495 mm Crank Webs Mid. length breadth Thickness parallel to axis 310 mmas fitted 495 mm Mid. length thickness shrunk Thickness around eye hole 209 mmWheel Shaft, diameter as per Rule Intermediate Shafts, diameter as per Rule Thrust Shaft, diameter at collars as per Rule 14.28as fitted None as fitted None as fitted 1912Screw Shaft, diameter as per Rule 14.99 Is the tube shaft fitted with a continuous liner yesas fitted 1912 as fitted 1912Liners, thickness in way of bushes as per Rule 75 Thickness between bushes as per rule 56 Is the after end of the liner made watertight in theas fitted 7/8 as fitted 7/8If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner yesIf the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive yesIf so, state type yes Is an approved Oil Gland or other appliance fitted at the after end of the tube yesLength of Bearing in Stern Bush next to and supporting propeller 6.014Pitch 12.0 No. of blades 4 Material Brown whether Moveable no Total Developed Surface 88 sq. feetPitch 12.0 No. of blades 4 Material Brown whether Moveable no Total Developed Surface 88 sq. feetPitch 12.0 No. of blades 4 Material Brown whether Moveable no Total Developed Surface 88 sq. feetPitch 12.0 No. of blades 4 Material Brown whether Moveable no Total Developed Surface 88 sq. feetPitch 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Rpt. *Auxiliary*  
IS A ~~DONKEY~~ BOILERS FITTED? *yes* If so, is a report now forwarded? *yes*

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*  
*aux* Boilers *yes* General Pumping Arrangements *yes* Oil Fuel Burning Arrangements *yes*

SPARE GEAR.

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

State the principal additional spare gear supplied

*Spare Glueless Head & Liner complete also Piston Rod & Propeller Shaft*

The foregoing is a correct description,  
For John G. Kincaid & Co. Ltd.

*McCart* Director. Manufacturer.

Dates of Survey while building { During progress of work in shops - - { (1930) Jan. 14-23 Feb. 11-19 26-24 28 Mar. 10-18 20-21 31 Apr. 1-8 11-14 18-21 25-30 May 1-2 5-8 9-12 13-20 22-23 24-28 29-30 June 2-4 5-9 10-12 13-16 17-19  
During erection on board vessel - - { 23-24 25-26 30 July 1-15 21-22 24-25 28-29 Aug. 1-4 5-8 13-15 18-19 20-21 22-26 24-29 Sept. 12-14 25-26  
Total No. of visits 80

Dates of Examination of principal parts—Cylinders 22. 5-30 Covers 2. 5-30 Pistons 20. 6-30 Rods 20. 6-30 Connecting rods 1. 4-30

Crank shaft 1. 4-30 Flywheel shaft Thrust shaft 18. 6-30 Intermediate shafts Tube shaft

Screw shaft 18. 6-30 Propeller 18. 6-30 Stern tube 2. 6-30 Engine seatings Engines holding down bolts 15. 8-30

Completion of fitting sea connections Completion of pumping arrangements 14-9-30 Engines tried under working conditions 26-9-30

Crank shaft, Material S Identification Mark LR WGM. K154 Flywheel shaft, Material Identification Mark

Thrust shaft, Material S Identification Mark LR 1460 WGM Intermediate shafts, Material Identification Marks

Tube shaft, Material Identification Mark Screw shaft, Material S Identification Mark LR WGM. 3113

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 *yes* 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.)

*These Engines & Boilers have been built under special survey in accordance with the approved plans & the workmanship and material are of good quality. They are now securely fitted on board and under working conditions, I found satisfactory. The Machinery is eligible in my opinion for the record of L.M.C. 9.30 (Notation of Donkey Boiler 180 lb.)*

*It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 9.30 C-L*

*Oil Engines 4 S.C.S.A 8 cy. 29 1/8" - 59" 2 D.B. 180 lb.*

The amount of Entry Fee .. £ 6 : - : When applied for,  
Special ... £ 104 : 13 : 24th SEPTEMBER 1930.  
*aux* Boiler Fee ... £ 24 : 2 : When received,  
*aux* *Rosen* ... £ 8 : 8 : 24th SEPTEMBER 1930.

Committee's Minute GLASGOW 1 OCT 1930

Assigned + L.M.C. 9.30

*2 DB-180 lb*

*London & Newcastle*  
Engineer Surveyor to Lloyd's Register of Shipping.

