

REPORT ON OIL ENGINE MACHINERY.

No. 86804

4b.

MARKS.

Received at London Office 7 JUL 1923
Writing Report 19 When handed in at Local Office 7 JUL 1923 Port of London (Greenwich)
Survey held at Greenwich Date, First Survey 10 JAN 1923 Last Survey 15 JUNE 1923
on the Single } Screw propeller Yacht "Karen"
Twin }
Triple }
Built at Ipswich By whom built Lampen Nicholson Yard No. When built
made at Ipswich By whom made Dickson-Pittman Ltd. Engine No. 550 When made 1923
Boilers made at By whom made Boiler No. When made
Horse Power 240 Back Engine Owners Port belonging to
Horse Power as per Rule 137 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c. Type of Engines Semi-Diesel 2 or 4 stroke cycle 2 Single or double acting Single
pressure in cylinders 300 lb. No. of cylinders 8 No. of cranks 4 Diameter of cylinders 14"
stroke 16" Revolutions per minute 275 Means of ignition Hot Spark Kind of fuel used Grade oil.
bearing between each crank Yes Span of bearings (Page 92, Section 2, par. 7 of Rules) 2-3 3/4
between centres of main bearings 2-3 3/4 Is a flywheel fitted Yes Diameter of crank shaft journals as fitted 6"
of crank pins 6" Breadth of crank webs as fitted 9 1/4" Thickness of ditto as fitted 3 3/4"
of flywheel shaft as fitted 6" Diameter of tunnel shaft as per Rule 6" Diameter of thrust shaft as fitted 6"
of screw shaft as fitted Is the screw shaft fitted with a continuous liner the whole length of the stern tube
er end of the liner made watertight in the propeller boss If the liner is in more than one length are the joints burned
er 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
ers are fitted, is the shaft lapped or protected between the liners If without liners, is the shaft arranged to run in oil
uter gland fitted to stern tube Length of stern bush Diameter of propeller
reversing Air reversing Is a governor or other arrangement fitted to prevent racing of the engine Yes Thickness of cylinder liners 1"
linders fitted with safety valves Means of lubrication Spark gun, mechanical pump, mechanical pump, mechanical pump Are the exhaust pipes and silencers water cooled or lagged with
sting material If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine
No. of cooling water pumps one Is the sea suction provided with an efficient strainer which can be cleared
vessel No. of bilge pumps fitted to the main engines Two Diameter of ditto 4 1/2" Stroke 6"
seatings/overhauled while the other is at work Yes No. of auxiliary pumps connected to the main bilge lines How driven
17-7 mps No. and sizes of suctions connected to both main bilge pumps and auxiliary bilge pumps: In engine room
-23. ds, etc. No. of ballast pumps How driven Sizes of pumps
Do. ast pump fitted with a direct suction from the engine room bilges State size Is a separate auxiliary pump suction fitted in
515 om and size Are all the bilge suction pipes fitted with roses Are the roses in Engine Room always accessible
Do. A.T.T. uces on Engine Room bulkheads always accessible Are all connections with the sea direct on the skin of the ship
alves or cocks Are they fixed sufficiently high on the ship's side to be seen without lifting the floor plates
harge pipes above or below the deep water line Are they each fitted with a discharge valve always accessible on the plating of the vessel
es, cocks, valves and pumps in connection with the machinery accessible at all times Are the bilge suction pipes, cocks and valves arranged so as to prevent any
tion between the sea and the bilges Is the screw shaft tunnel watertight Is it fitted with a watertight door
m If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork
n air compressors No. of stages Diameters Stroke Driven by
iliary air compressors No. of stages Diameters Stroke Driven by
all auxiliary air compressors No. of stages Diameters Stroke Driven by
enging air pumps Diameter Stroke Driven by
f auxiliary Diesel Engine crank shafts as per Rule Are the air compressors and their coolers made so as to be easy of access
as fitted

RECEIVERS:—No of high pressure air receivers Two Internal diameter 2'-0" Cubic capacity of each 24 feet.
Seamless, lap welded or riveted longitudinal joint
working pressure of pipes No. of starting air receivers Range of tensile strength
capacity Material Seamless, lap welded or riveted longitudinal joint
tensile strength thickness Working pressure by rules Is each receiver, which can be isolated,
a safety valve as per Rule Can the internal surfaces of the receivers be examined Yes What means are provided for cleaning their
ices Manhole door on one end. Is there a drain arrangement fitted at the lowest part of each receiver Yes.

If so, is a report now forwarded?

DESCRIPTION.	DATE OF TEST.	WORKING PRESSURE.	TEST PRESSURE.	STAMPED.	REMARKS.
ENGINE CYLINDERS <i>Liners</i>	<i>550</i> 2.3.23	<i>551</i> 2.3.23	280 lbs per sq in	560 lbs per sq in	227.
" " <i>Heads</i>	<i>550</i> 2.3.23	<i>551</i> 2.3.23	280 lbs "	560 lbs "	227.
" " <i>JACKETS</i>	15.3.23	17.3.23	5 to 10 lbs "	50 " "	227.
" " <i>PISTON WATER PASSAGES</i>					
MAIN COMPRESSORS—1st STAGE					
" 2nd "					
" 3rd "					
AIR RECEIVERS <i>Control Valves</i>	24.3.23	15.6.23	200 lbs "	400 lbs "	227.
" <i>Am receiver fittings</i>	24.5.23	12.5.23	200 lbs "	400 lbs "	227.
" <i>Injection</i>	29.3.23	15.6.23	300 lbs "	400 lbs "	227.
" <i>Am starting & reversing valves</i>	29.3.23	15.6.23	200 lbs "	400 lbs "	227.
AIR PIPES	6.4.23		600 lbs "	1200 lbs "	227.
FUEL PIPES	17.3.23	17.3.23	600 lbs "	1200 lbs "	227.
FUEL PUMPS <i>one oil container</i>	24.3.23	24.3.23	300 lbs "	400 lbs "	227.
SILENCER <i>Water cooled</i>	2.6.23	11.6.23	5 to 10 lbs "	50 to 25 " "	227.
" <i>Exhaust pipes & water cooled</i>	22.5.23	15.6.23	- - -	25 " "	227.
" <i>WATER JACKET</i>	32.5.23	31.5.23	- - -	4 1/2 lbs "	227.
SEPARATE FUEL TANKS					

SPARE GEAR 2 Vapours.

- 8. Safety valve diaphragm for fuel pump.
- 24. Section & delivery valve for h.c. & delivery pump.
- 16. Cylinder head joints.
- 10. Piston rings.
- 2. Air reversing valves.
- 1. Fuel pump complete.
- 1. Piston ring guide.
- 1. Complete set thrust pads.

J. McIlraith

Manufacturer.

1923: Jan 10. 27 Feb 24. 28 Mar 9. 8. 15. 17. 20. 24. 29 Apr 6. 21. 27 May 1. 7. 9. 12. 24. 31 Jun

10-1-23	Head	27-1-23
27-1-23	Coners	8-3-23
8-3-23		15-3-23
20-3-23		17-3-23
15-3-23	Screw shaft	

Pistons **24-2-23** Rods ✓ Connecting rods **24**
Propeller ✓ Stern tube ✓ Engine seatings

Completion of pumping arrangements ✓

Engines tried under working conditions ✓

Stern tube

Screw shaft and propeller

Identification Mark on Dr. N^o 626 R₁.

Material of thrust shafts: *Steel*

Identification Mark on Do. N.

Identification Marks on Do.

Material of screw shafts ✓

Identification Marks on Do. ✓

Is the flash point of the oil to be used over $150^{\circ} F.$ ✓

If so, state name of vessel ✓

Is this machinery duplicate of a previous case ✓

General Remarks (State quality of workmanship, opinions as to class, &c. These engines have been run
Survey in accordance with the approved plans, & Society's Rules, the materials and workmanship, are sound
On completion of erection, the engines were run at full power for 6 hours & found satisfactory, both
were afterwards dismantled & working parts examined, & found satisfactory. Have now been dispo
Musselman & Michelsons. Expected to be installed in the Yacht "KAREN", & will be elig
my opinion to have the record of L.M.C. with date, after a satisfactory trial will
installed in the vessel.

The amount of Entry Fee	£ 44.	£	:	:
Special	£ 34.10	£	:	:
Donkey Boiler Fee	£ 38.10	£	:	:
Travelling Expenses (if any)	£	£	:	:

When applied for,

When received,

Committee's Minute

ERL 3 AUG. 1923

Assigned

See Son Rpt 11574

A. B. Farmer

Inspector Surveyor to Lloyd's Register of Ships

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Foundation