

# REPORT ON OIL ENGINE MACHINERY.

No. 87995

17 JUL 1928 APR 1925

Date of writing Report 19... When handed in at Local Office 16<sup>th</sup> July 1924 Port of London  
 No. in Survey held at Bedford Date, First Survey 29<sup>th</sup> Jan Last Survey 15<sup>th</sup> July 1924  
 Reg. Book. Single } 3 Electric Generating Sets Tons { Gross  
 on the Twin } Screw vessels Triple }  
 Master. Built at By whom built Kawasaki Shipyd Yard No. 484 When built 1924  
 Auxiliary Engines made at Bedford By whom made W. H. Allen & Co Engine No. 52330/1/2/3 When made 1924  
 Donkey Boilers made at By whom made Boiler No. When made  
 Brake Horse Power Packset-150 Owners Port belonging to  
 Nom. Horse Power as per Rule Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

OIL ENGINES, &c.—Type of Engines Burmeister & Wain Design 2 or 4 stroke cycle 4 Single or double acting Triple  
 Maximum pressure in cylinders 530 lbs No. of cylinders 3 No. of cranks 3 Diameter of cylinders 3.25 in  
 Length of stroke 350 in Revolutions per minute 300 Means of ignition Compression Kind of fuel used Heavy oil  
 Is there a bearing between each crank yes Span of bearings (Page 92, Section 2, par. 7 of Rules) 364 in  
 Distance between centres of main bearings 600 in Is a flywheel fitted yes Diameter of crank shaft journals as per Rule 170 in 530 lb  
 as fitted 170 in  
 Diameter of crank pins 190 in Breadth of crank webs as per Rule 226 in Thickness of ditto as per Rule 95 in  
 as fitted 380 in circular as fitted 92 in  
 Diameter of flywheel shaft as per Rule Diameter of tunnel shaft as per Rule Diameter of thrust shaft as per Rule  
 as fitted 170 in 310 in at boss as fitted as fitted  
 Diameter of screw shaft as per Rule Is the screw shaft fitted with a continuous liner the whole length of the stern tube  
 as fitted  
 Is the after end of the liner made watertight in the propeller boss If the liner is in more than one length are the joints burned  
 If 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  
 If two liners are fitted, is the shaft lapped or protected between the liners If without liners, is the shaft arranged to run in oil  
 Type of outer gland fitted to stern tube Length of stern bush Diameter of propeller  
 Pitch of propeller No. of blades state whether moveable Total surface square feet  
 Method of reversing Is a governor or other arrangement fitted to prevent racing of the engine when declutched yes Thickness of cylinder liners 29 in  
 Are the cylinders fitted with safety valves yes Means of lubrication Forced Are the exhaust pipes and silencers water cooled or lagged with  
 Non-conducting material Lapped 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 1 3 single acting Rams 1 1/2 dia x 2 Stroke ROBERT Lyle Is the sea suction provided with an efficient strainer which can be cleared  
 within the vessel No. of bilge pumps fitted to the main engines Diameter of ditto Stroke  
 Can one be overhauled while the other is at work No. of auxiliary pumps connected to the main bilge lines How driven  
 Sizes of pumps No. and sizes of suction connected to both main bilge pumps and auxiliary bilge pumps:—In engine room  
 used in holds, etc. No. of ballast pumps How driven Sizes of pumps  
 Is the ballast pump fitted with a direct suction from the engine room bilges State size Is a separate auxiliary pump suction fitted in  
 engine Room and size Are all the bilge suction pipes fitted with roses Are the roses in Engine Room always accessible  
 Are the sluices on Engine Room bulkheads always accessible Are all connections with the sea direct on the skin of the ship  
 Are they valves or cocks Are they fitted sufficiently high on the ship's side to be seen without lifting the floor plates  
 Are the discharge pipes above or below the deep water line Are they each fitted with a discharge valve always accessible on the plating of the vessel  
 Are all pipes, 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  
 communication between the sea and the bilges Is the screw shaft tunnel watertight Is it fitted with a watertight door  
 worked from If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork  
 In each engine One No. of stages Two Diameters 62 1/2 215 in Stroke 220 in Driven by Crank shaft  
 No. of main air compressors No. of stages Diameters Stroke Driven by  
 No. of auxiliary air compressors No. of stages Diameters Stroke Driven by  
 No. of small auxiliary air compressors No. of stages Diameters Stroke Driven by  
 No. of scavenging air pumps Diameter Stroke Driven by  
 Diameter of 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 1 Pack Set Internal diameter Cubic capacity of each 88 litres  
 Material Steel Seamless, lap welded or riveted longitudinal joint Seamlers Range of tensile strength  
 thickness working pressure by Rules No. of starting air receivers 1 for the 3 Sets Internal diameter  
 al cubic capacity 150 litres Material Steel Seamless, lap welded or riveted longitudinal joint Seamlers  
 Range of tensile strength thickness Working pressure by rules Is each receiver, which can be isolated,  
 d with a safety valve as per Rule Fusible plug Can the internal surfaces of the receivers be examined ho What means are provided for cleaning their  
 er surfaces Is there a drain arrangement fitted at the lowest part of each receiver yes



