

REPORT ON MACHINERY.

No. 2091

-1 NOV 1924

Received at London Office

Date of writing Report 25th October 1924 When handed in at Local Office 29th October 1924 Port of Barrow-in-Furness.No. in Survey held at Barrow. Date, First Survey 22nd January 1923 Last Survey 22nd October 1924
Reg. Book. 49141 on the Steel Twin screw steamer "Orama" (hickers Ld No 598) (Number of Visits 253)Master ☒ Built at Barrow. By whom built hickers Ld. When built 1924
Engines made at Barrow. By whom made hickers Ld. when made 1924
Boilers made at ☒ By whom made ☒ when made 1924
Nominal Registered Horse Power 3856 Owners Orient Steam Navigation Co. Ld. Port belonging to Barrow.
Shaft Horse Power at Full Power 19500 Is Refrigerating Machinery fitted for cargo purposes ☒ Is Electric Light fitted ☒URBINE ENGINES, &c.—Description of Engines Parsons Turbines No. of Turbines 3 per shaft.
Diameter of Rotor Shaft Journals, H.P. 8" I.P. 8" L.P. 9 1/2" Diameter of Pinion Shaft 8"
Diameter of Journals ENDS 8" CENTRE 9" Distance between Centres of Bearings 3'-3" Diameter of Pitch Circle 10' 4 7/8"
Diameter of Wheel Shaft 21" Distance between Centres of Bearings 8'-2 1/4" Diameter of Pitch Circle of Wheel 155' 9 9/16"
Width of Face 4'-2" TOTAL Diameter of Thrust Shaft under Collars 20 1/2" Diameter of Tunnel Shaft as per rule 18 1/2"
No. of Screw Shafts Two. Diameter of same as per rule 20.1 as fitted 21" Diameter of Propeller 20'-6" Pitch of Propeller 23'-0"
No. of Blades 4 State whether Moveable ☒ Total Surface 140 sq ft Diameter of Rotor Drum, H.P. 2'-9" L.P. 5'-0" Astern 4'-0"
Thickness at Bottom of Groove, H.P. 1 1/2" I.P. 1 1/2" L.P. 1 1/2" Astern 1 1/2" Revs. per Minute at Full Power, Turbine 1373.4 Propeller 95

ARTICULARS OF BLADING.

H.P.				L.P.				ASTERN.			
row Impulse Wheel —5" Mean Dia.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.
1ST EXPANSION	1 3/8	2'-11 3/4"	12	4"	5'-8"	2	2 1/2"	4'-5"	2	2 1/2"	4'-5"
2ND	1 3/4	3'-0 1/2"	10	4 1/8"	5'-9 3/4"	2	3 1/2"	4'-7"	2	3 1/2"	4'-7"
3RD	2 1/8	3'-1 1/4"	10	6"	6'-0"	2	5"	4'-10"	2	5"	4'-10"
4TH	2 3/8	3'-2 1/4"	10	6 5/8"	6'-1 1/4"	1	5"	4'-10"	2	5"	4'-10"
5TH	2 1/2	I.P.	4	7 1/8"	6'-3 3/4"	1	5"	4'-10"	2	5"	4'-10"
6TH	3 3/8	3'-6 3/4"	4	9 3/8"	6'-6 3/4"	1					
7TH	4 3/8	3'-9 1/4"	4	11"	6'-10"	1					
8TH	6 1/4	4'-0 1/2"	4	11"	6'-10"	1					
9TH	6 3/4	4'-1 1/2"	4	11"	6'-10"	1					

No. and size of Feed pumps 1 Main feed pump 20" x 14" x 24" : 1 Turbo. Unit 24000000 : 1 Auxiliary Unit 10 1/2" x 8" x 22"
No. and size of Bilge pumps Two in E.R. 1 three throw 18 E.H.P. 4 1/2" x 9" : 1 two throw 10 E.H.P. 4" x 8" : Two in Boiler room 9" x 10" x 10" : Emergency 10" x 10" in Ref. room.
No. and size of Bilge suction in Engine Room Two of 4 1/2" Two of 3 1/2" Three of 3 1/2" in After Boiler room : Three of 3 1/2" in Forward Boiler room. Four of 3 1/2" in Tunnels. In Holds, &c. One of 3 1/2" in No. 1 : Two of 3 1/2" in No. 2 : Two of 3 1/2" in No. 3
No. of Bilge Injections Two sizes 2 1/2" Connected to condenser, or to circulating pump Or Pump Is a separate Donkey Suction fitted in Engine Room & size 6 1/2"
Are all the bilge suction pipes fitted with roses ☒ Are the roses in Engine room always accessible ☒
Are all connections with the sea direct on the skin of the ship ☒ Are they Valves or Cocks Both ☒
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates ☒ Are the Discharge Pipes above or below the deep water line Below ☒
Are they each fitted with a Discharge Valve always accessible on the plating of the vessel ☒ Are the Blow Off Cocks fitted with a spigot and brass covering plate ☒
What pipes are carried through the bunkers how ☒ How are they protected ☒
Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings 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 navigating bridge ☒

BOILERS, &c.—(Letter for record (S) Manufacturers of Steel

Total Heating Surface of Boilers 47232 Is Forced Draft fitted yes No. and Description of Boilers 6 D & 4 SB
Working Pressure Tested by hydraulic pressure to Date of test No. of Certificate
Can each boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to each boiler
Area of each valve Pressure to which they are adjusted Are they fitted with easing gear
Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates
Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams
long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps
Per centages of strength of longitudinal joint plates Working pressure of shell by rules Size of manhole in shell
Size of compensating ring No. and Description of Furnaces in each Boiler Material Outside diameter
Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
bottom Thickness of plates bottom
Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom
Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules End plates in steam space
Material of stays Diameter at smallest part Area supported by each stay Working pressure by rules Material of stays
Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of Front plates at bottom
Diameter at smallest part Area supported by each stay Working pressure by rules Working pressure of plate by rules
Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules
Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays
Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Length and
thickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each
Working pressure by rules Steam dome: description of joint to shell % of strength of joint Diameter
Thickness of shell plates Material Description of longitudinal joint Diameter of rivet holes Pitch of rivets
Working pressure of shell by rules Crown plates: Thickness How stayed

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Lloyd's Register
Foundation

SUPERHEATER. Type ✓ Date of Approval of Plan ✓ Tested by Hydraulic Pressure to ✓
Date of Test ✓ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler ✓
Diameter of Safety Valve ✓ Pressure to which each is adjusted ✓ Is Easing Gear fitted ✓

IS A DONKEY BOILER FITTED? *no* If so is a report now forwarded? ✓

SPARE GEAR. State the articles supplied:— 2 Bolts & nuts and studs for each size of Rotor bearing. 2 Bolts & nuts for main gear wheel bearings. 2 Bolts & nuts for Pinion bearings. 18 Coupling bolts & nuts. 1st total number of bolts & nuts for Gear & Turbine casing joints. 6 Thermometers for Oil circulating system. 4 Main gear wheel bearings. 6 Rotor bearing bushes. 12 Pinion bearing bushes. 9 main Thrust Pads and pivots. 12 Thrust pads SR & SR Adjusting block. Adjusting liners in halves. 12 Thrust Pads SR block. 8 Adjusting liners in halves. 1 set of feed pump valves. bucket and rods. 1 pump impeller. shaft and turbine wheel for each size of Pump. lubricating Pump bucket and rod. and valve spring for each size fitted. Assorted bolts & nuts. Rod & nut steel. Propeller shaft. 2 Blades. 3 pinion & 1

The foregoing is a correct description,

J. Ballantyne
VICKERS LIMITED,

Manufacturer.

Dates of Survey while building
During progress of work in shops --
During erection on board vessel --
Total No. of visits 253
Is the approved plan of main boiler forwarded herewith ✓
" " " donkey " " " ✓

Dates of Examination of principal parts—Casings 22-11-23 Rotors 29-2-24 7-16-4-24 Blading 29-2-24 Gearing 29-2-24

Rotor shafts 3-1-24 Thrust shafts 2 1/2 24 x 1 1/2 23 Tunnel shafts 2 1/2 24 x 1 1/2 23 Screw shafts 2 1/2 24 x 1 1/2 23 Propellers 5-5-24

Stern tubes 5-5-24 Steam pipes tested 12 1/2 24 & 30 9 24 Engine and boiler seatings 21-5-24 Engines holding down bolts 2-10-24

Completion of pumping arrangements 2-10-24 Boilers fixed 2-10-24 Engines tried under steam 21-10-24

Main boiler safety valves adjusted 1st 10 1/2 8 11 -10-24 Thickness of adjusting washers. See attached list

Material and tensile strength of Rotor shaft Ingot steel 33 to 34 tons Identification Mark on Do. 6687-8-9 7P 696-7-8 7P

Material and tensile strength of Pinion shaft Nickel steel 41 to 46 tons Identification Mark on Do. 6687, 6726, 6769, 6804, 6847, 6889, 6924, 6967, 6987, 6988, 6989, 6990, 6991, 6992, 6993, 6994, 6995, 6996, 6997, 6998, 6999, 7000, 7001, 7002, 7003, 7004, 7005, 7006, 7007, 7008, 7009, 7010, 7011, 7012, 7013, 7014, 7015, 7016, 7017, 7018, 7019, 7020, 7021, 7022, 7023, 7024, 7025, 7026, 7027, 7028, 7029, 7030, 7031, 7032, 7033, 7034, 7035, 7036, 7037, 7038, 7039, 7040, 7041, 7042, 7043, 7044, 7045, 7046, 7047, 7048, 7049, 7050, 7051, 7052, 7053, 7054, 7055, 7056, 7057, 7058, 7059, 7060, 7061, 7062, 7063, 7064, 7065, 7066, 7067, 7068, 7069, 7070, 7071, 7072, 7073, 7074, 7075, 7076, 7077, 7078, 7079, 7080, 7081, 7082, 7083, 7084, 7085, 7086, 7087, 7088, 7089, 7090, 7091, 7092, 7093, 7094, 7095, 7096, 7097, 7098, 7099, 7100, 7101, 7102, 7103, 7104, 7105, 7106, 7107, 7108, 7109, 7110, 7111, 7112, 7113, 7114, 7115, 7116, 7117, 7118, 7119, 7120, 7121, 7122, 7123, 7124, 7125, 7126, 7127, 7128, 7129, 7130, 7131, 7132, 7133, 7134, 7135, 7136, 7137, 7138, 7139, 7140, 7141, 7142, 7143, 7144, 7145, 7146, 7147, 7148, 7149, 7150, 7151, 7152, 7153, 7154, 7155, 7156, 7157, 7158, 7159, 7160, 7161, 7162, 7163, 7164, 7165, 7166, 7167, 7168, 7169, 7170, 7171, 7172, 7173, 7174, 7175, 7176, 7177, 7178, 7179, 7180, 7181, 7182, 7183, 7184, 7185, 7186, 7187, 7188, 7189, 7190, 7191, 7192, 7193, 7194, 7195, 7196, 7197, 7198, 7199, 7200, 7201, 7202, 7203, 7204, 7205, 7206, 7207, 7208, 7209, 7210, 7211, 7212, 7213, 7214, 7215, 7216, 7217, 7218, 7219, 7220, 7221, 7222, 7223, 7224, 7225, 7226, 7227, 7228, 7229, 7230, 7231, 7232, 7233, 7234, 7235, 7236, 7237, 7238, 7239, 7240, 7241, 7242, 7243, 7244, 7245, 7246, 7247, 7248, 7249, 7250, 7251, 7252, 7253, 7254, 7255, 7256, 7257, 7258, 7259, 7260, 7261, 7262, 7263, 7264, 7265, 7266, 7267, 7268, 7269, 7270, 7271, 7272, 7273, 7274, 7275, 7276, 7277, 7278, 7279, 7280, 7281, 7282, 7283, 7284, 7285, 7286, 7287, 7288, 7289, 7290, 7291, 7292, 7293, 7294, 7295, 7296, 7297, 7298, 7299, 7300, 7301, 7302, 7303, 7304, 7305, 7306, 7307, 7308, 7309, 7310, 7311, 7312, 7313, 7314, 7315, 7316, 7317, 7318, 7319, 7320, 7321, 7322, 7323, 7324, 7325, 7326, 7327, 7328, 7329, 7330, 7331, 7332, 7333, 7334, 7335, 7336, 7337, 7338, 7339, 7340, 7341, 7342, 7343, 7344, 7345, 7346, 7347, 7348, 7349, 7350, 7351, 7352, 7353, 7354, 7355, 7356, 7357, 7358, 7359, 7360, 7361, 7362, 7363, 7364, 7365, 7366, 7367, 7368, 7369, 7370, 7371, 7372, 7373, 7374, 7375, 7376, 7377, 7378, 7379, 7380, 7381, 7382, 7383, 7384, 7385, 7386, 7387, 7388, 7389, 7390, 7391, 7392, 7393, 7394, 7395, 7396, 7397, 7398, 7399, 7400, 7401, 7402, 7403, 7404, 7405, 7406, 7407, 7408, 7409, 7410, 7411, 7412, 7413, 7414, 7415, 7416, 7417, 7418, 7419, 7420, 7421, 7422, 7423, 7424, 7425, 7426, 7427, 7428, 7429, 7430, 7431, 7432, 7433, 7434, 7435, 7436, 7437, 7438, 7439, 7440, 7441, 7442, 7443, 7444, 7445, 7446, 7447, 7448, 7449, 7450, 7451, 7452, 7453, 7454, 7455, 7456, 7457, 7458, 7459, 7460, 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7627, 7628, 7629, 7630, 7631, 7632, 7633, 7634, 7635, 7636, 7637, 7638, 7639, 7640, 7641, 7642, 7643, 7644, 7645, 7646, 7647, 7648, 7649, 7650, 7651, 7652, 7653, 7654, 7655, 7656, 7657, 7658, 7659, 7660, 7661, 7662, 7663, 7664, 7665, 7666, 7667, 7668, 7669, 7670, 7671, 7672, 7673, 7674, 7675, 7676, 7677, 7678, 7679, 7680, 7681, 7682, 7683, 7684, 7685, 7686, 7687, 7688, 7689, 7690, 7691, 7692, 7693, 7694, 7695, 7696, 7697, 7698, 7699, 7700, 7701, 7702, 7703, 7704, 7705, 7706, 7707, 7708, 7709, 7710, 7711, 7712, 7713, 7714, 7715, 7716, 7717, 7718, 7719, 7720, 7721, 7722, 7723, 7724, 7725, 7726, 7727, 7728, 7729, 7730, 7731, 7732, 7733, 7734, 7735, 7736, 7737, 7738, 7739, 7740, 7741, 7742, 7743, 7744, 7745, 7746, 7747, 7748, 7749, 7750, 7751, 7752, 7753, 7754, 7755, 7756, 7757, 7758, 7759, 7760, 7761, 7762, 7763, 7764, 7765, 7766, 7767, 7768, 7769, 7770, 7771, 7772, 7773, 7774, 7775, 7776, 7777, 7778, 7779, 7780, 7781, 7782, 7783, 7784, 7785, 7786, 7787, 7788, 7789, 7790, 7791, 7792, 7793, 7794, 7795, 7796, 7797, 7798, 7799, 7800, 7801, 7802, 7803, 7804, 7805, 7806, 7807, 7808, 7809, 7810, 7811, 7812, 7813, 7814, 7815, 7816, 7817, 7818, 7819, 7820, 7821, 7822, 7823, 7824, 7825, 7826, 7827, 7828, 7829, 7830, 7831, 7832, 7833, 7834, 7835, 7836, 7837, 7838, 7839, 7840, 7841, 7842, 7843, 7844, 7845, 7846, 7847, 7848, 7849, 7850, 7851, 7852, 7853, 7854, 7855, 7856, 7857, 7858, 7859, 7860, 7861, 7862, 7863, 7864, 7865, 7866, 7867, 7868, 7869, 7870, 7871, 7872, 7873, 7874, 7875, 7876, 7877, 7878, 7879, 7880, 7881, 7882, 7883, 7884, 7885, 7886, 7887, 7888, 7889, 7890, 7891, 7892, 7893, 7894, 7895, 7896, 7897, 7898, 7899, 7900, 7901, 7902, 7903, 7904, 7905, 7906, 7907, 7908, 7909, 7910, 7911, 7912, 7913, 7914, 7915, 7916, 7917, 7918, 7919, 7920, 7921, 7922, 7923, 7924, 7925, 7926, 7927, 7928, 7929, 7930, 7931, 7932, 7933, 7934, 7935, 7936, 7937, 7938, 7939, 7940, 7941, 7942, 7943, 7944, 7945, 7946, 7947, 7948, 7949, 7950, 7951, 7952, 7953, 7954, 7955, 7956, 7957, 7958, 7959, 7960, 7961, 7962, 7963, 7964, 7965, 7966, 7967, 7968, 7969, 7970, 7971, 7972, 7973, 7974, 7975, 7976, 7977, 7978, 7979, 7980, 7981, 7982, 7983, 7984, 7985, 7986, 7987, 7988, 7989, 7990, 7991, 7992, 7993, 7994, 7995, 7996, 7997, 7998, 7999, 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8009, 8010, 8011, 8012, 8013, 8014, 8015, 8016, 8017, 8018, 8019, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8029, 8030, 8031, 8032, 8033, 8034, 8035, 8036, 8037, 8038, 8039, 8040, 8041, 8042, 8043, 8044, 8045, 8046, 8047, 8048, 8049, 8050, 8051, 8052, 8053, 8054, 8055, 8056, 8057, 8058, 8059, 8060, 8061, 8062, 8063, 8064, 8065, 8066, 8067, 8068, 8069, 8070, 8071, 8072, 8073, 8074, 8075, 8076, 8077, 8078, 8079, 8080, 8081, 8082, 8083, 8084, 8085, 8086, 8087, 8088, 8089, 8090, 8091, 8092, 8093, 8094, 8095, 8096, 8097, 8098, 8099, 8100, 8101, 8102, 8103, 8104, 8105, 8106, 8107, 8108, 8109, 8110, 8111, 8112, 8113, 8114, 8115, 8116, 8117, 8118, 8119, 8120, 8121, 8122, 8123, 8124, 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8457, 8458, 8459, 8460, 8461, 8462, 8463, 8464, 8465, 8466, 8467, 8468, 8469, 8470, 8471, 8472, 8473, 8474, 8475, 8476, 8477, 8478, 8479, 8480, 8481, 8482, 8483, 8484, 8485, 8486, 8487, 8488, 8489, 8490, 8491, 8492, 8493, 8494, 8495, 8496, 8497, 8498, 8499, 8500, 8501, 8502, 8503, 8504, 8505, 8506, 8507, 8508, 8509, 8510, 8511, 8512, 8513, 8514, 8515, 8516, 8517, 8518, 8519, 8520, 8521, 8522, 8523, 8524, 8525, 8526, 8527, 8528, 8529, 8530, 8531, 8532, 8533, 8534, 8535, 8536, 8537, 8538, 8539, 8540, 8541, 8542, 8543, 8544, 8545, 8546, 8547, 8548, 8549, 8550, 8551, 8552, 8553, 8554, 8555, 8556, 8557, 8558, 8559, 8560, 8561, 8562, 8563, 8564, 8565, 8566, 8567, 8568, 8569, 8570, 8571, 8572, 8573, 8574, 8575, 8576, 8577, 8578, 8579, 8580, 8581, 8582, 8583, 8584, 8585, 8586, 8587, 8588, 8589, 8590, 8591, 8592, 8593, 8594, 8595, 8596, 8597, 8598, 8599, 8600, 8601, 8602, 8603, 8604, 8605, 8606, 8607, 8608, 8609, 8610, 8611, 8612, 8613, 8614, 8615, 8616, 8617, 8618, 8619, 8620, 8621, 8622, 8623, 8624, 8625, 8626, 8627, 8628, 8629, 8630, 8631, 8632, 8633, 8634, 8635, 8636, 8637, 8638, 8639, 8640, 8641, 8642, 8643, 8644, 8645, 8646, 8647, 8648, 8649, 8650, 8651, 8652, 8653, 8654, 8655, 8656, 8657, 8658, 8659, 8660, 8661, 8662, 8663, 8664, 8665, 8666, 8667, 8668, 8669, 8670, 8671, 8672, 8673, 8674, 8675, 8676, 8677, 8678, 8679, 8680, 8681, 8682, 8683, 8684, 8685, 8686, 8687, 8688, 8689, 8690, 8691, 8692, 8693, 8694, 8695, 8696, 8697, 8698, 8699, 8700, 8701, 8702, 8703, 8704, 8705, 8706, 8707, 8708, 8709, 8710, 8711, 8712, 8713, 8714, 8715, 8716, 8717, 8718, 8719, 8720, 8721, 8722, 8723, 8724, 8725, 8726, 8727, 8728, 8729, 8730, 8731, 8732, 8733, 8734, 8735, 8736, 8737, 8738, 8739, 8740, 8741, 8742, 8743, 8744, 8745, 8746, 8747, 8748, 8749, 8750, 8751, 8752, 8753, 8754, 8755, 8756, 8757, 8758, 8759, 8760, 8761, 8762, 8763, 8764, 8765, 8766, 8767, 8768, 8769, 8770, 8771, 8772, 8773, 8774, 8775, 8776, 8777, 8778, 8779, 8780, 8781, 8782, 8783, 8784, 8785, 8786, 8787, 8788, 8789, 8790, 8791, 8792, 8793, 8794, 8795, 8796, 8797, 8798, 8799, 8800, 8801, 8802, 8803, 8804, 8805, 8806, 8807, 8808, 8809, 8810, 8811, 8812, 8813, 8814, 8815, 8816, 8817, 8818, 8819, 8820, 8821, 8822, 8823, 8824, 8825, 8826, 8827, 8828, 8829, 8830, 8831, 8832, 8833, 8834, 8835, 8836, 8837, 8838, 8839

Rpt. 9a.

Port of Barrow - m. harness

Continuation of Report No. 2091 dated 25th October 1924 on the

U.S.S. "Orama"

(Vickers L^{td} No 598)

Thickness of Safety valve Adjusting Washers

No 1 boiler:	PF $2\frac{1}{16}$ "	SF $\frac{5}{16}$ "	PA $\frac{11}{32}$ "	SA $\frac{11}{32}$ "	Superheater $\frac{1}{2}$ "
No 2 "	PF $2\frac{3}{64}$ "	SF $2\frac{1}{64}$ "	PA $2\frac{3}{64}$ "	SA $\frac{13}{32}$ "	" $3\frac{3}{64}$ "
No 3 "	PF $\frac{3}{8}$ "	SF $\frac{11}{32}$ "	PA $\frac{3}{8}$ "	SA $2\frac{5}{32}$ "	" $1\frac{9}{32}$ "
No 4 "	F $\frac{3}{8}$ "	A $\frac{13}{32}$ "	Superheater $\frac{1}{2}$ "		
No 5 "	F $\frac{13}{32}$ "	A $\frac{3}{8}$ "	" $\frac{15}{32}$ "		
No 6 "	F $\frac{13}{32}$ "	A $\frac{13}{32}$ "	" $\frac{14}{32}$ "		
No 7 "	F $2\frac{3}{64}$ "	A $\frac{1}{16}$ "	" $\frac{1}{4}$ "		
No 8 "	PF $2\frac{5}{64}$ "	SF $\frac{1}{16}$ "	PA $\frac{1}{16}$ "	SA $2\frac{9}{64}$ "	Superheater $\frac{1}{2}$ "
No 9 "	PF $\frac{5}{16}$ "	SF $\frac{11}{32}$ "	PA $\frac{1}{32}$ "	SA $\frac{5}{16}$ "	" $\frac{14}{32}$ "
No 10 "	PF $\frac{5}{16}$ "	SF $\frac{11}{32}$ "	PA $\frac{3}{8}$ "	SA $\frac{11}{32}$ "	" $\frac{15}{32}$ "

MR

W348-0018 212

Total No. of visits

255

Is the approved plan of main boiler forwarded herewith

Yes

" " " donkey " " "

a of Firegrate in each



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Foundation