

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 1 DEC 1942

Date of writing Report 10 When handed in at Local Office 14.9.42 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 26.12.41 Last Survey 9.9.1942
Reg. Book. (Number of Visits 23)

on the STEEL SCREW STEAMER EMPIRE DRIVER

Built at West Hartlepool By whom built Wm. Gray & Co. Ltd. Yard No. 1137 Tons { Gross 7041.89
Net 4839.66

Engines made at Glasgow By whom made Harland & Wolff, Ltd. Engine No. 6.0.8370/2. When made 1942
A/75MSM

Boilers made at WEST HARTLEPOOL By whom made CENTRAL MARINE ENGINE WORKS. Boiler No. 1137 When made 1942.

Registered Horse Power Owners Ministry of War Transport Port belonging to WEST HARTLEPOOL.

Nom. Horse Power as per Rule 510 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted YES.

Trade for which Vessel is intended OCEAN GOING.

ENGINES, &c.—Description of Engines Triple expansion Revs. per minute 76

Dia. of Cylinders 24½ - 39 - 70 Length of Stroke 48 No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule 14½ as fitted 14½ Crank pin dia. 14 ¾ Crank webs Mid. length breadth 22 Thickness parallel to axis 9
Mid. length thickness 9 shrunk Thickness around eye-hole 6 ¾

Intermediate Shafts, diameter as per Rule 13.33 as fitted 13 ⅝ Thrust shaft, diameter at collars as per Rule 14½ as fitted 14 ¼

Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 14.85 as fitted 15 ¼ Is the { tube } shaft fitted with a continuous liner { yes

Bronze Liners, thickness in way of bushes as per Rule 24/32 as fitted 13/16 Thickness between bushes as per Rule 18/32 as fitted 21/32 Is the after end of the liner made watertight in the propeller boss yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner

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 Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft No If so, state type Length of Bearing in Stern Bush next to and supporting propeller 5-1

Propeller, dia. 18-3 Pitch 16-6 No. of Blades 4 Material Cast Iron whether Moveable No Total Developed Surface 110 sq. feet

Feed Pumps worked from the Main Engines, No. 1 Diameter 4 Stroke 27 Can one be overhauled while the other is at work

Bilge Pumps worked from the Main Engines, No. 2 Diameter 4 Stroke 27 Can one be overhauled while the other is at work yes

Feed { No. and size 3 @ 9½ x 7 x 21 Pumps connected to the { No. and size 2 @ 4 x 28 1 @ 10 x 11 x 10 1 @ 9½ x 7 x 21 SINGLEX.
Pumps { How driven INDEPENDENT STEAM. Main Bilge Line { How driven MAIN ENGINE INDEPENDENT STEAM.

Ballast Pumps, No. and size 1 @ 10 x 11 x 10 DUPLEX Lubricating Oil Pumps, including Spare Pump, No. and size

Are two independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 4 @ 3" 1 @ 5"

In Pump Room In Holds, &c. No. 1. 2 @ 3" No. 2. 2 @ 3" No. 3. 2 @ 3" BLRM. 2 @ 3"

ENG RM. 2 @ 3" No. 4. 2 @ 3" No. 5. 3 @ 3" TUNNEL WELL. 1 @ 2½"

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 9" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 @ 5"

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes yes

Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges yes

Are all Sea Connections fitted direct on the skin of the ship On reservoirs. Are they fitted with Valves or Cocks Both.

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes. Are the Overboard Discharges above or below the deep water line Below.

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel yes. Are the Blow Off Cocks fitted with a spigot and brass covering plate yes.

What Pipes pass through the bunkers Bilge pipes to Seward Stairs. How are they protected Wood ceiling

What pipes pass through the deep tanks Have they been tested as per Rule

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes.

Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one compartment to another yes. Is the Shaft Tunnel watertight yes. Is it fitted with a watertight door No worked from

MAIN BOILERS, &c.—(Letter for record 5.) Total Heating Surface of Boilers 7243 sq. ft.

Which Boilers are fitted with Forced Draft steel Which Boilers are fitted with Superheaters steel.

No. and Description of Boilers 3 single ended, multitubular Working Pressure 220 lbs. sq. in.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes.

IS A DONKEY BOILER FITTED? No If so, is a report now forwarded?

Can the donkey boiler be used for domestic purposes only

PLANS. Are approved plans forwarded herewith for Shafting 26-4-41 Main Boilers 19-2-41 Auxiliary Boilers Donkey Boilers

(If not state date of approval)

Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR.

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

State the principal additional spare gear supplied

The foregoing is a correct description.

Wm. J. Wright

Manufacturer.

Finlayson Secretary

W. J. Wright

THE CENTRAL MARINE ENGINE WORKS

10, 11 & 12, CANAL STREET, LONDON, E.C. 2.

1010933-010942-0101

Lloyd's Register Foundation

Nov 19
 1941 Dec: 26.30 (1942) Jan: 13 Feb: 5.12 Mar: 2.3.5.12.27 Apr: 10.14.16.28 May:
 19 June: 11.26 July: 30.31 Aug: 13.19 Sep: 9
 During progress of work in shops - -
 Dates of Survey while building - -
 During erection on board vessel - -
 Total No. of visits 22

Dates of Examination of principal parts—Cylinders 27-7-42 Slides 11-6-42 Covers 27-3-42
 Pistons 11-6-42 Piston Rods 26-6-42 Connecting rods 30-7-42
 Crank shaft 19-11-41 Thrust shaft 21-6-41 * Intermediate shafts 20-6-41 to 19-8-41 *
 Tube shaft * Examined at C.F.C. Works, Canada. Propeller 31-7-42
 Stern tube Engine and boiler seatings 25-9-42 Engines holding down bolts 24-10-42
 Completion of fitting sea connections 1-10-42
 Completion of pumping arrangements 17-11-42 Boilers fixed 24-10-42 Engines tried under steam 17-11-42
 Main boiler safety valves adjusted 16-11-42 Thickness of adjusting washers 15/32" 3/16" 1/4" 5/16" 3/8" 1/2" 5/8" 3/4" 7/8" 1" 1 1/4" 1 1/2" 1 3/4" 2" 2 1/4" 2 1/2" 2 3/4" 3" 3 1/4" 3 1/2" 3 3/4" 4" 4 1/4" 4 1/2" 4 3/4" 5" 5 1/4" 5 1/2" 5 3/4" 6" 6 1/4" 6 1/2" 6 3/4" 7" 7 1/4" 7 1/2" 7 3/4" 8" 8 1/4" 8 1/2" 8 3/4" 9" 9 1/4" 9 1/2" 9 3/4" 10" 10 1/4" 10 1/2" 10 3/4" 11" 11 1/4" 11 1/2" 11 3/4" 12" 12 1/4" 12 1/2" 12 3/4" 13" 13 1/4" 13 1/2" 13 3/4" 14" 14 1/4" 14 1/2" 14 3/4" 15" 15 1/4" 15 1/2" 15 3/4" 16" 16 1/4" 16 1/2" 16 3/4" 17" 17 1/4" 17 1/2" 17 3/4" 18" 18 1/4" 18 1/2" 18 3/4" 19" 19 1/4" 19 1/2" 19 3/4" 20" 20 1/4" 20 1/2" 20 3/4" 21" 21 1/4" 21 1/2" 21 3/4" 22" 22 1/4" 22 1/2" 22 3/4" 23" 23 1/4" 23 1/2" 23 3/4" 24" 24 1/4" 24 1/2" 24 3/4" 25" 25 1/4" 25 1/2" 25 3/4" 26" 26 1/4" 26 1/2" 26 3/4" 27" 27 1/4" 27 1/2" 27 3/4" 28" 28 1/4" 28 1/2" 28 3/4" 29" 29 1/4" 29 1/2" 29 3/4" 30" 30 1/4" 30 1/2" 30 3/4" 31" 31 1/4" 31 1/2" 31 3/4" 32" 32 1/4" 32 1/2" 32 3/4" 33" 33 1/4" 33 1/2" 33 3/4" 34" 34 1/4" 34 1/2" 34 3/4" 35" 35 1/4" 35 1/2" 35 3/4" 36" 36 1/4" 36 1/2" 36 3/4" 37" 37 1/4" 37 1/2" 37 3/4" 38" 38 1/4" 38 1/2" 38 3/4" 39" 39 1/4" 39 1/2" 39 3/4" 40" 40 1/4" 40 1/2" 40 3/4" 41" 41 1/4" 41 1/2" 41 3/4" 42" 42 1/4" 42 1/2" 42 3/4" 43" 43 1/4" 43 1/2" 43 3/4" 44" 44 1/4" 44 1/2" 44 3/4" 45" 45 1/4" 45 1/2" 45 3/4" 46" 46 1/4" 46 1/2" 46 3/4" 47" 47 1/4" 47 1/2" 47 3/4" 48" 48 1/4" 48 1/2" 48 3/4" 49" 49 1/4" 49 1/2" 49 3/4" 50" 50 1/4" 50 1/2" 50 3/4" 51" 51 1/4" 51 1/2" 51 3/4" 52" 52 1/4" 52 1/2" 52 3/4" 53" 53 1/4" 53 1/2" 53 3/4" 54" 54 1/4" 54 1/2" 54 3/4" 55" 55 1/4" 55 1/2" 55 3/4" 56" 56 1/4" 56 1/2" 56 3/4" 57" 57 1/4" 57 1/2" 57 3/4" 58" 58 1/4" 58 1/2" 58 3/4" 59" 59 1/4" 59 1/2" 59 3/4" 60" 60 1/4" 60 1/2" 60 3/4" 61" 61 1/4" 61 1/2" 61 3/4" 62" 62 1/4" 62 1/2" 62 3/4" 63" 63 1/4" 63 1/2" 63 3/4" 64" 64 1/4" 64 1/2" 64 3/4" 65" 65 1/4" 65 1/2" 65 3/4" 66" 66 1/4" 66 1/2" 66 3/4" 67" 67 1/4" 67 1/2" 67 3/4" 68" 68 1/4" 68 1/2" 68 3/4" 69" 69 1/4" 69 1/2" 69 3/4" 70" 70 1/4" 70 1/2" 70 3/4" 71" 71 1/4" 71 1/2" 71 3/4" 72" 72 1/4" 72 1/2" 72 3/4" 73" 73 1/4" 73 1/2" 73 3/4" 74" 74 1/4" 74 1/2" 74 3/4" 75" 75 1/4" 75 1/2" 75 3/4" 76" 76 1/4" 76 1/2" 76 3/4" 77" 77 1/4" 77 1/2" 77 3/4" 78" 78 1/4" 78 1/2" 78 3/4" 79" 79 1/4" 79 1/2" 79 3/4" 80" 80 1/4" 80 1/2" 80 3/4" 81" 81 1/4" 81 1/2" 81 3/4" 82" 82 1/4" 82 1/2" 82 3/4" 83" 83 1/4" 83 1/2" 83 3/4" 84" 84 1/4" 84 1/2" 84 3/4" 85" 85 1/4" 85 1/2" 85 3/4" 86" 86 1/4" 86 1/2" 86 3/4" 87" 87 1/4" 87 1/2" 87 3/4" 88" 88 1/4" 88 1/2" 88 3/4" 89" 89 1/4" 89 1/2" 89 3/4" 90" 90 1/4" 90 1/2" 90 3/4" 91" 91 1/4" 91 1/2" 91 3/4" 92" 92 1/4" 92 1/2" 92 3/4" 93" 93 1/4" 93 1/2" 93 3/4" 94" 94 1/4" 94 1/2" 94 3/4" 95" 95 1/4" 95 1/2" 95 3/4" 96" 96 1/4" 96 1/2" 96 3/4" 97" 97 1/4" 97 1/2" 97 3/4" 98" 98 1/4" 98 1/2" 98 3/4" 99" 99 1/4" 99 1/2" 99 3/4" 100" 100 1/4" 100 1/2" 100 3/4" 101" 101 1/4" 101 1/2" 101 3/4" 102" 102 1/4" 102 1/2" 102 3/4" 103" 103 1/4" 103 1/2" 103 3/4" 104" 104 1/4" 104 1/2" 104 3/4" 105" 105 1/4" 105 1/2" 105 3/4" 106" 106 1/4" 106 1/2" 106 3/4" 107" 107 1/4" 107 1/2" 107 3/4" 108" 108 1/4" 108 1/2" 108 3/4" 109" 109 1/4" 109 1/2" 109 3/4" 110" 110 1/4" 110 1/2" 110 3/4" 111" 111 1/4" 111 1/2" 111 3/4" 112" 112 1/4" 112 1/2" 112 3/4" 113" 113 1/4" 113 1/2" 113 3/4" 114" 114 1/4" 114 1/2" 114 3/4" 115" 115 1/4" 115 1/2" 115 3/4" 116" 116 1/4" 116 1/2" 116 3/4" 117" 117 1/4" 117 1/2" 117 3/4" 118" 118 1/4" 118 1/2" 118 3/4" 119" 119 1/4" 119 1/2" 119 3/4" 120" 120 1/4" 120 1/2" 120 3/4" 121" 121 1/4" 121 1/2" 121 3/4" 122" 122 1/4" 122 1/2" 122 3/4" 123" 123 1/4" 123 1/2" 123 3/4" 124" 124 1/4" 124 1/2" 124 3/4" 125" 125 1/4" 125 1/2" 125 3/4" 126" 126 1/4" 126 1/2" 126 3/4" 127" 127 1/4" 127 1/2" 127 3/4" 128" 128 1/4" 128 1/2" 128 3/4" 129" 129 1/4" 129 1/2" 129 3/4" 130" 130 1/4" 130 1/2" 130 3/4" 131" 131 1/4" 131 1/2" 131 3/4" 132" 132 1/4" 132 1/2" 132 3/4" 133" 133 1/4" 133 1/2" 133 3/4" 134" 134 1/4" 134 1/2" 134 3/4" 135" 135 1/4" 135 1/2" 135 3/4" 136" 136 1/4" 136 1/2" 136 3/4" 137" 137 1/4" 137 1/2" 137 3/4" 138" 138 1/4" 138 1/2" 138 3/4" 139" 139 1/4" 139 1/2" 139 3/4" 140" 140 1/4" 140 1/2" 140 3/4" 141" 141 1/4" 141 1/2" 141 3/4" 142" 142 1/4" 142 1/2" 142 3/4" 143" 143 1/4" 143 1/2" 143 3/4" 144" 144 1/4" 144 1/2" 144 3/4" 145" 145 1/4" 145 1/2" 145 3/4" 146" 146 1/4" 146 1/2" 146 3/4" 147" 147 1/4" 147 1/2" 147 3/4" 148" 148 1/4" 148 1/2" 148 3/4" 149" 149 1/4" 149 1/2" 149 3/4" 150" 150 1/4" 150 1/2" 150 3/4" 151" 151 1/4" 151 1/2" 151 3/4" 152" 152 1/4" 152 1/2" 152 3/4" 153" 153 1/4" 153 1/2" 153 3/4" 154" 154 1/4" 154 1/2" 154 3/4" 155" 155 1/4" 155 1/2" 155 3/4" 156" 156 1/4" 156 1/2" 156 3/4" 157" 157 1/4" 157 1/2" 157 3/4" 158" 158 1/4" 158 1/2" 158 3/4" 159" 159 1/4" 159 1/2" 159 3/4" 160" 160 1/4" 160 1/2" 160 3/4" 161" 161 1/4" 161 1/2" 161 3/4" 162" 162 1/4" 162 1/2" 162 3/4" 163" 163 1/4" 163 1/2" 163 3/4" 164" 164 1/4" 164 1/2" 164 3/4" 165" 165 1/4" 165 1/2" 165 3/4" 166" 166 1/4" 166 1/2" 166 3/4" 167" 167 1/4" 167 1/2" 167 3/4" 168" 168 1/4" 168 1/2" 168 3/4" 169" 169 1/4" 169 1/2" 169 3/4" 170" 170 1/4" 170 1/2" 170 3/4" 171" 171 1/4" 171 1/2" 171 3/4" 172" 172 1/4" 172 1/2" 172 3/4" 173" 173 1/4" 173 1/2" 173 3/4" 174" 174 1/4" 174 1/2" 174 3/4" 175" 175 1/4" 175 1/2" 175 3/4" 176" 176 1/4" 176 1/2" 176 3/4" 177" 177 1/4" 177 1/2" 177 3/4" 178" 178 1/4" 178 1/2" 178 3/4" 179" 179 1/4" 179 1/2" 179 3/4" 180" 180 1/4" 180 1/2" 180 3/4" 181" 181 1/4" 181 1/2" 181 3/4" 182" 182 1/4" 182 1/2" 182 3/4" 183" 183 1/4" 183 1/2" 183 3/4" 184" 184 1/4" 184 1/2" 184 3/4" 185" 185 1/4" 185 1/2" 185 3/4" 186" 186 1/4" 186 1/2" 186 3/4" 187" 187 1/4" 187 1/2" 187 3/4" 188" 188 1/4" 188 1/2" 188 3/4" 189" 189 1/4" 189 1/2" 189 3/4" 190" 190 1/4" 190 1/2" 190 3/4" 191" 191 1/4" 191 1/2" 191 3/4" 192" 192 1/4" 192 1/2" 192 3/4" 193" 193 1/4" 193 1/2" 193 3/4" 194" 194 1/4" 194 1/2" 194 3/4" 195" 195 1/4" 195 1/2" 195 3/4" 196" 196 1/4" 196 1/2" 196 3/4" 197" 197 1/4" 197 1/2" 197 3/4" 198" 198 1/4" 198 1/2" 198 3/4" 199" 199 1/4" 199 1/2" 199 3/4" 200" 200 1/4" 200 1/2" 200 3/4" 201" 201 1/4" 201 1/2" 201 3/4" 202" 202 1/4" 202 1/2" 202 3/4" 203" 203 1/4" 203 1/2" 203 3/4" 204" 204 1/4" 204 1/2" 204 3/4" 205" 205 1/4" 205 1/2" 205 3/4" 206" 206 1/4" 206 1/2" 206 3/4" 207" 207 1/4" 207 1/2" 207 3/4" 208" 208 1/4" 208 1/2" 208 3/4" 209" 209 1/4" 209 1/2" 209 3/4" 210" 210 1/4" 210 1/2" 210 3/4" 211" 211 1/4" 211 1/2" 211 3/4" 212" 212 1/4" 212 1/2" 212 3/4" 213" 213 1/4" 213 1/2" 213 3/4" 214" 214 1/4" 214 1/2" 214 3/4" 215" 215 1/4" 215 1/2" 215 3/4" 216" 216 1/4" 216 1/2" 216 3/4" 217" 217 1/4" 217 1/2" 217 3/4" 218" 218 1/4" 218 1/2" 218 3/4" 219" 219 1/4" 219 1/2" 219 3/4" 220" 220 1/4" 220 1/2" 220 3/4" 221" 221 1/4" 221 1/2" 221 3/4" 222" 222 1/4" 222 1/2" 222 3/4" 223" 223 1/4" 223 1/2" 223 3/4" 224" 224 1/4" 224 1/2" 224 3/4" 225" 225 1/4" 225 1/2" 225 3/4" 226" 226 1/4" 226 1/2" 226 3/4" 227" 227 1/4" 227 1/2" 227 3/4" 228" 228 1/4" 228 1/2" 228 3/4" 229" 229 1/4" 229 1/2" 229 3/4" 230" 230 1/4" 230 1/2" 230 3/4" 231" 231 1/4" 231 1/2" 231 3/4" 232" 232 1/4" 232 1/2" 232 3/4" 233" 233 1/4" 233 1/2" 233 3/4" 234" 234 1/4" 234 1/2" 234 3/4" 235" 235 1/4" 235 1/2" 235 3/4" 236" 236 1/4" 236 1/2" 236 3/4" 237" 237 1/4" 237 1/2" 237 3/4" 238" 238 1/4" 238 1/2" 238 3/4" 239" 239 1/4" 239 1/2" 239 3/4" 240" 240 1/4" 240 1/2" 240 3/4" 241" 241 1/4" 241 1/2" 241 3/4" 242" 242 1/4" 242 1/2" 242 3/4" 243" 243 1/4" 243 1/2" 243 3/4" 244" 244 1/4" 244 1/2" 244 3/4" 245" 245 1/4" 245 1/2" 245 3/4" 246" 246 1/4" 246 1/2" 246 3/4" 247" 247 1/4" 247 1/2" 247 3/4" 248" 248 1/4" 248 1/2" 248 3/4" 249" 249 1/4" 249 1/2" 249 3/4" 250" 250 1/4" 250 1/2" 250 3/4" 251" 251 1/4" 251 1/2" 251 3/4" 252" 252 1/4" 252 1/2" 252 3/4" 253" 253 1/4" 253 1/2" 253 3/4" 254" 254 1/4" 254 1/2" 254 3/4" 255" 255 1/4" 255 1/2" 255 3/4" 256" 256 1/4" 256 1/2" 256 3/4" 257" 257 1/4" 257 1/2" 257 3/4" 258" 258 1/4" 258 1/2" 258 3/4" 259" 259 1/4" 259 1/2" 259 3/4" 260" 260 1/4" 260 1/2" 260 3/4" 261" 261 1/4" 261 1/2" 261 3/4" 262" 262 1/4" 262 1/2" 262 3/4" 263" 263 1/4" 263 1/2" 263 3/4" 264" 264 1/4" 264 1/2" 264 3/4" 265" 265 1/4" 265 1/2" 265 3/4" 266" 266 1/4" 266 1/2" 266 3/4" 267" 267 1/4" 267 1/2" 267 3/4" 268" 268 1/4" 268 1/2" 268 3/4" 269" 269 1/4" 269 1/2" 269 3/4" 270" 270 1/4" 270 1/2" 270 3/4" 271" 271 1/4" 271 1/2" 271 3/4" 272" 272 1/4" 272 1/2" 272 3/4" 273" 273 1/4" 273 1/2" 273 3/4" 274" 274 1/4" 274 1/2" 274 3/4" 275" 275 1/4" 275 1/2" 275 3/4" 276" 276 1/4" 276 1/2" 276 3/4" 277" 277 1/4" 277 1/2" 277 3/4" 278" 278 1/4" 278 1/2" 278 3/4" 279" 279 1/4" 279 1/2" 279 3/4" 280" 280 1/4" 280 1/2" 280 3/4" 281" 281 1/4" 281 1/2" 281 3/4" 282" 282 1/4" 282 1/2" 282 3/4" 283" 283 1/4" 283 1/2" 283 3/4" 284" 284 1/4" 284 1/2" 284 3/4" 285" 285 1/4" 285 1/2" 285 3/4" 286" 286 1/4" 286 1/2" 286 3/4" 287" 287 1/4" 287 1/2" 287 3/4" 288" 288 1/4" 288 1/2" 288 3/4" 289" 289 1/4" 289 1/2" 289 3/4" 290" 290 1/4" 290 1/2" 290 3/4" 291" 291 1/4" 291 1/2" 291 3/4" 292" 292 1/4" 292 1/2" 292 3/4" 293" 293 1/4" 293 1/2" 293 3/4" 294" 294 1/4" 294 1/2" 294 3/4" 295" 295 1/4" 295 1/2" 295 3/4" 296" 296 1/4" 296 1/2" 296 3/4" 297" 297 1/4" 297 1/2" 297 3/4" 298" 298 1/4" 298 1/2" 298 3/4" 299" 299 1/4" 299 1/2" 299 3/4" 300" 300 1/4" 300 1/2" 300 3/4" 301" 301 1/4" 301 1/2" 301 3/4" 302" 302 1/4" 302 1/2" 302 3/4" 303" 303 1/4" 303 1/2" 303 3/4" 304" 304 1/4" 304 1/2" 304 3/4" 305" 305 1/4" 305 1/2" 305 3/4" 306" 306 1/4" 306 1/2" 306 3/4" 307" 307 1/4" 307 1/2" 307 3/4" 308" 308 1/4" 308 1/2" 308 3/4" 309" 309 1/4" 309 1/2" 309 3/4" 310" 310 1/4" 310 1/2" 310 3/4" 311" 311 1/4" 311 1/2" 311 3/4" 312" 312 1/4" 312 1/2" 312 3/4" 313" 313 1/4" 313 1/2" 313 3/4" 314" 314 1/4" 314 1/2" 314 3/4" 315" 315 1/4" 315 1/2" 315 3/4" 316" 316 1/4" 316 1/2" 316 3/4" 317" 317 1/4" 317 1/2" 317 3/4" 318" 318 1/4" 318 1/2" 318 3/4" 319" 319 1/4" 319 1/2" 319 3/4" 320" 320 1/4" 320 1/2" 320 3/4" 321" 321 1/4" 321 1/2" 321 3/4" 322" 322 1/4" 322 1/2" 322 3/4" 323" 323 1/4" 323 1/2" 323 3/4" 324" 324 1/4" 324 1/2" 324 3/4" 325" 325 1/4" 325 1/2" 325 3/4" 326" 326 1/4" 326 1/2" 326 3/4" 327" 327 1/4" 327 1/2" 327 3/4" 328" 328 1/4" 328 1/2" 328 3/4" 329" 329 1/4" 329 1/2" 329 3/4" 330" 330 1/4" 330 1/2" 330 3/4" 331" 331 1/4" 331 1/2" 331 3/4" 332" 332 1/4" 332 1/2" 332 3/4" 333" 333 1/4" 333 1/2" 333 3/4" 334" 334 1/4" 334 1/2" 334 3/4" 335" 335 1/4" 335 1/2" 335 3/4" 336" 336 1/4" 336 1/2" 336 3/4" 337" 337 1/4" 337 1/2" 337 3/4" 338" 338 1/4" 338 1/2" 338 3/4" 339" 339 1/4" 339 1/2" 339 3/4" 340" 340 1/4" 340 1/2" 340 3/4" 341" 341 1/4" 341 1/2" 341 3/4" 342" 342 1/4" 342 1/2" 342 3/4" 343" 343 1/4" 343 1/2" 343 3/4" 344" 344 1/4" 344 1/2" 344 3/4" 345" 345 1/4" 345 1/2" 345 3/4" 346" 346 1/4" 346 1/2" 346 3/4" 347" 347 1/4" 347 1/2" 347 3/4" 348" 348 1/4" 348 1/2" 348 3/4" 349" 349 1/4" 349 1/2" 349 3/4" 350" 350 1/4" 350 1/2" 350 3/4" 351" 351 1/4" 351 1/2" 351 3/4" 352" 352 1/4" 352 1/2" 352 3/4" 353" 353 1/4" 353 1/2" 353 3/4" 354" 354 1/4" 354 1/2" 354 3/4" 355" 355 1/4" 355 1/2" 355 3/4" 356" 356 1/4" 356 1/2" 356 3/4" 357" 357 1/4" 357 1/2" 357 3/4" 358" 358 1/4" 358 1/2" 358 3/4" 359" 359 1/4" 359 1/2" 359 3/4" 360" 360 1/4" 360 1/2" 360 3/4" 361" 361 1/4" 361 1/2" 361 3/4" 362" 362 1/4" 362 1/2" 362 3/4" 363" 363 1/4" 363 1/2" 363 3/4" 364" 364 1/4" 364 1/2" 364 3/4" 365" 365 1/4" 365 1/2" 365 3/4" 366" 366 1/4" 366 1/2" 366 3/4" 367" 367 1/4" 367 1/2" 367 3/4" 368" 368 1/4" 368 1/2" 368 3/4" 369" 369 1/4" 369 1/2" 369 3/4" 370" 370 1/4" 370 1/2" 370 3/4" 371" 371 1/4" 371 1/2" 371 3/4" 372" 372 1/4" 372 1/2" 372 3/4" 373" 373 1/4" 373 1/2" 373 3/4" 374" 374 1/4" 374 1/2" 374 3/4" 375" 375 1/4" 375 1/2" 375 3/4" 376" 376 1/4" 376 1/2" 376 3/4" 377" 377 1/4" 377 1/2" 377 3/4" 378" 378 1/4" 378 1/2" 378 3/4" 379" 379 1/4" 379 1/2" 379 3/4" 380" 380 1/4" 380 1/2" 380 3/4" 381" 381 1/4" 381 1/2" 381 3/4" 382" 382 1/4" 382 1/2" 382 3/4" 383" 383 1/4" 383 1/2" 383 3/4" 384" 384 1/4" 384 1/2" 384 3/4