

Rpt. 4b.

REPORT ON OIL ENGINE MACHINERY.

No. 10,590

Received at London Office 23 MAR 1931

Date of writing Report 10- When handed in at Local Office 20th Mar 1931 Port of BELFAST
No. in Survey held at BELFAST Date, First Survey 24th Jan. 1929 Last Survey 30th Mar 1931
Reg. Book Number of Visits 282
92260 on the ^{Single} ~~Twin~~ ~~Triple~~ ~~Quadruple~~ Screw vessel REINA DEL PACIFICO Tons { Gross 17707
Net
Built at BELFAST By whom built HARLAND & WOLFF LO. Yard No. 852 When built 1931
Engines made at BELFAST By whom made HARLAND & WOLFF LO. Engine No. 852 When made 1931
Donkey Boilers made at LINCOLN By whom made BABCOCK & WILCOX LO. Boiler No. 460234 When made 1930
Brake Horse Power 18000 Owners PACIFIC STEAM NAVIGATION CO. Port belonging to LIVERPOOL
Nom. Horse Power as per Rule 2834 Is Refrigerating Machinery fitted for cargo purposes YES Is Electric Light fitted YES
Trade for which vessel is intended OCEAN - GOING 24th 16 47th

OIL ENGINES, &c.—Type of Engines Harland & Wolff - 3 cyl. with pressure induction or 4 stroke cycle 4 Single or double acting SINGLE
Maximum pressure in cylinders 650 lbs. Diameter of cylinders 630 mm. Length of stroke 1200 mm. No. of cylinders 48 No. of cranks 48
Span of bearings, adjacent to the Crank, measured from inner edge to inner edge 936 mm. Is there a bearing between each crank YES
Revolutions per minute 136 Flywheel dia. 1.9736 metres Weight 2,300 Rps Means of ignition Compression Kind of fuel used diesel oil
Crank Shaft, dia. of journals as per Rule as fitted 480 mm. Crank pin dia. 480 mm. Crank Webs Mid. length breadth 1240 mm. Thickness parallel to axis 300 mm.
as fitted 480 mm. Mid. length thickness 300 mm. Thickness around eye-hole 210 mm.
Flywheel Shaft, diameter as per Rule as fitted Thrust Shaft, diameter at collars as per Rule as fitted 15"
Tube Shaft, diameter as per Rule as fitted Screw Shaft, diameter as per Rule as fitted 15"
Is the shaft fitted with a continuous liner YES
Bronze Liners, thickness in way of bushes as per Rule as fitted Thickness between bushes as per Rule as fitted 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 YES
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 YES
If two liners are fitted, is the shaft lapped or protected between the liners YES Is an approved Oil Gland or other appliance fitted at the after end of the tube
shaft YES If so, state type Bedervall Length of Bearing in Stern Bush next to and supporting propeller 6'0" ✓
Propeller, dia. 14'6" Pitch 15'6" No. of blades three Material Mang. Br. whether Moveable No. Total Developed Surface each 46.5 sq. feet
Method of reversing Engines Electric Motor Is a governor or other arrangement fitted to prevent racing of the engine when declutched YES Means of lubrication
forced Thickness of cylinder liners 46 mm. Are the cylinders fitted with safety valves YES Are the exhaust pipes and silencers water cooled or lagged with
non-conducting material YES If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine 6 funnel
Cooling Water Pumps, No. 3 Fan Is the sea suction provided with an efficient strainer which can be cleared within the vessel YES
Bilge Pumps worked from the Main Engines, None Diameter Stroke Can one be overhauled while the other is at work YES
Pumps connected to the Main Bilge Line { No. and Size Three of 140 Imp/hr. One of 200 Imp/hr.
How driven Electric Motors
Ballast Pumps, No. and size One of 200 Imp/hr. Lubricating Oil Pumps, including Spare Pump, No. and size Fan of 180 Imp/hr.
Are two independent means arranged for circulating water through the Oil Cooler YES Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge
Pumps, No. and size:—In Machinery Spaces Aux. Motor room Two 4": Main Motor Room Two 4": Sea 2 1/2": 3" 3" 3" 3" 3" In Pump Room ✓
In Holds, &c. No 1- Two 4": No 2- Two 4": No 3- Two 4": No 4- Two 4": No 5- One 4"
Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size Two 5": One 6": Two 7"
Are all the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes YES Are the Bilge Suctions in the Machinery Spaces
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 except main Girder 1 inch 1/2 5" Are they fitted with Valves or Cocks YES
Are they fixed sufficiently high on the ship's side to be seen without lifting the platform 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 none How are they protected
What pipes pass through the deep tanks none 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 YES worked from C. Deck
If a wood vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork
Main Air Compressors, No. none No. of stages Diameters Strokes Driven by
Auxiliary Air Compressors, No. Two No. of stages Two Diameters 5.45-4.85 mm. Stroke 280 mm. Driven by Electric Motors
Small Auxiliary Air Compressors, No. One No. of stages Two Diameters 180-54 mm. Stroke 115 mm. Driven by Steam
Scavenging Air Pumps, No. Diameter Stroke Driven by
Auxiliary Engines crank shafts, diameter as per Rule 208 mm. No. Four Position Auxiliary motor room forward ✓
as fitted 220 mm

AIR RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule YES
Can the internal surfaces of the receivers be examined and cleaned YES Is a drain fitted at the lowest part of each receiver YES
High Pressure Air Receivers, No. Two Cubic capacity of each 200 litres Internal diameter 342 mm. thickness 16 mm.
Seamless, lap welded or riveted longitudinal joint Seamless Material Steel Range of tensile strength 28/32 Imp 0" Working pressure by Rules 1293/6 0" ✓
Actual 1000/60"
Starting Air Receivers, No. Four Total cubic capacity 3200 - 5 Internal diameter 6'-11 5/16" thickness 1 5/8"
Seamless, lap welded or riveted longitudinal joint YES Material Steel Range of tensile strength 28/32 Imp 0" Working pressure by Rules 358/60"
Actual 356/60"

5.11.15.18.19
Aug 2.5.8.9
24.29 Aug 94
1.12.24.27.19
6.8.19.22.16.17
Visits 185

IS A DONKEY BOILER FITTED? *Three blankens Waste Heat* If so, is a report now forwarded? *Yes*

Is the donkey boiler intended to be used for domestic purposes only and for Auxiliary Air Compressor

PLANS. Are approved plans forwarded herewith for Shafting 13.9.29 & 11.10.29 Receivers *Yes* Separate Tanks *Yes*
(If not, state date of approval)
Donkey 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 *See separate list.*

The foregoing is a correct description.
For HARELAND AND WOLFF, LIMITED,

Manufacturer.

269
15
Dates of Survey while building
During progress of work in shops--
During erection on board vessel--
Total No. of visits
Dates of Examination of principal parts--Cylinders 31.3.30 31.10.30 Covers 21.9.30 31.10.30 Pistons 28.10.30 Rods 28.10.30 Connecting rods 27.30 31.10.30
Crank shaft 23.9.30 14.8.30 Flywheel shaft Thrust shaft 22.8.30 15.9.30 Intermediate shafts 11.8.30 12.9.30 19.30 Tube shaft
Screw shaft 8.5.30 6.4.1930 Propeller 13.8.30 Stern tube 21.8.30 Engine seatings 14.10.30 Engines holding down bolts 6.1.31
Completion of fitting sea connections 23.9.30 Completion of pumping arrangements 24.2.30 Engines tried under working conditions 3.5.75 19.31
Crank shaft, Material S.M. STEEL Identification Mark 135.139.140.142.146.147 Flywheel shaft, Material Identification Mark 2720.2636.2791.2811.2812.2813.2814.2815.2816.2817.2818.2819.2820.2821.2822.2823.2824.2825.2826.2827.2828.2829.2830.2831.2832.2833.2834.2835.2836.2837.2838.2839.2840.2841.2842.2843.2844.2845.2846.2847.2848.2849.2850.2851.2852.2853.2854.2855.2856.2857.2858.2859.2860.2861.2862.2863.2864.2865.2866.2867.2868.2869.2870.2871.2872.2873.2874.2875.2876.2877.2878.2879.2880.2881.2882.2883.2884.2885.2886.2887.2888.2889.2890.2891.2892.2893.2894.2895.2896.2897.2898.2899.2900.2901.2902.2903.2904.2905.2906.2907.2908.2909.2910.2911.2912.2913.2914.2915.2916.2917.2918.2919.2920.2921.2922.2923.2924.2925.2926.2927.2928.2929.2930.2931.2932.2933.2934.2935.2936.2937.2938.2939.2940.2941.2942.2943.2944.2945.2946.2947.2948.2949.2950.2951.2952.2953.2954.2955.2956.2957.2958.2959.2960.2961.2962.2963.2964.2965.2966.2967.2968.2969.2970.2971.2972.2973.2974.2975.2976.2977.2978.2979.2980.2981.2982.2983.2984.2985.2986.2987.2988.2989.2990.2991.2992.2993.2994.2995.2996.2997.2998.2999.3000.3001.3002.3003.3004.3005.3006.3007.3008.3009.3010.3011.3012.3013.3014.3015.3016.3017.3018.3019.3020.3021.3022.3023.3024.3025.3026.3027.3028.3029.3030.3031.3032.3033.3034.3035.3036.3037.3038.3039.3040.3041.3042.3043.3044.3045.3046.3047.3048.3049.3050.3051.3052.3053.3054.3055.3056.3057.3058.3059.3060.3061.3062.3063.3064.3065.3066.3067.3068.3069.3070.3071.3072.3073.3074.3075.3076.3077.3078.3079.3080.3081.3082.3083.3084.3085.3086.3087.3088.3089.3090.3091.3092.3093.3094.3095.3096.3097.3098.3099.3100.3101.3102.3103.3104.3105.3106.3107.3108.3109.3110.3111.3112.3113.3114.3115.3116.3117.3118.3119.3120.3121.3122.3123.3124.3125.3126.3127.3128.3129.3130.3131.3132.3133.3134.3135.3136.3137.3138.3139.3140.3141.3142.3143.3144.3145.3146.3147.3148.3149.3150.3151.3152.3153.3154.3155.3156.3157.3158.3159.3160.3161.3162.3163.3164.3165.3166.3167.3168.3169.3170.3171.3172.3173.3174.3175.3176.3177.3178.3179.3180.3181.3182.3183.3184.3185.3186.3187.3188.3189.3190.3191.3192.3193.3194.3195.3196.3197.3198.3199.3200.3201.3202.3203.3204.3205.3206.3207.3208.3209.3210.3211.3212.3213.3214.3215.3216.3217.3218.3219.3220.3221.3222.3223.3224.3225.3226.3227.3228.3229.3230.3231.3232.3233.3234.3235.3236.3237.3238.3239.3240.3241.3242.3243.3244.3245.3246.3247.3248.3249.3250.3251.3252.3253.3254.3255.3256.3257.3258.3259.3260.3261.3262.3263.3264.3265.3266.3267.3268.3269.3270.3271.3272.3273.3274.3275.3276.3277.3278.3279.3280.3281.3282.3283.3284.3285.3286.3287.3288.3289.3290.3291.3292.3293.3294.3295.3296.3297.3298.3299.3300.3301.3302.3303.3304.3305.3306.3307.3308.3309.3310.3311.3312.3313.3314.3315.3316.3317.3318.3319.3320.3321.3322.3323.3324.3325.3326.3327.3328.3329.3330.3331.3332.3333.3334.3335.3336.3337.3338.3339.3340.3341.3342.3343.3344.3345.3346.3347.3348.3349.3350.3351.3352.3353.3354.3355.3356.3357.3358.3359.3360.3361.3362.3363.3364.3365.3366.3367.3368.3369.3370.3371.3372.3373.3374.3375.3376.3377.3378.3379.3380.3381.3382.3383.3384.3385.3386.3387.3388.3389.3390.3391.3392.3393.3394.3395.3396.3397.3398.3399.3400.3401.3402.3403.3404.3405.3406.3407.3408.3409.3410.3411.3412.3413.3414.3415.3416.3417.3418.3419.3420.3421.3422.3423.3424.3425.3426.3427.3428.3429.3430.3431.3432.3433.3434.3435.3436.3437.3438.3439.3440.3441.3442.3443.3444.3445.3446.3447.3448.3449.3450.3451.3452.3453.3454.3455.3456.3457.3458.3459.3460.3461.3462.3463.3464.3465.3466.3467.3468.3469.3470.3471.3472.3473.3474.3475.3476.3477.3478.3479.3480.3481.3482.3483.3484.3485.3486.3487.3488.3489.3490.3491.3492.3493.3494.3495.3496.3497.3498.3499.3500.3501.3502.3503.3504.3505.3506.3507.3508.3509.3510.3511.3512.3513.3514.3515.3516.3517.3518.3519.3520.3521.3522.3523.3524.3525.3526.3527.3528.3529.3530.3531.3532.3533.3534.3535.3536.3537.3538.3539.3540.3541.3542.3543.3544.3545.3546.3547.3548.3549.3550.3551.3552.3553.3554.3555.3556.3557.3558.3559.3560.3561.3562.3563.3564.3565.3566.3567.3568.3569.3570.3571.3572.3573.3574.3575.3576.3577.3578.3579.3580.3581.3582.3583.3584.3585.3586.3587.3588.3589.3590.3591.3592.3593.3594.3595.3596.3597.3598.3599.3600.3601.3602.3603.3604.3605.3606.3607.3608.3609.3610.3611.3612.3613.3614.3615.3616.3617.3618.3619.3620.3621.3622.3623.3624.3625.3626.3627.3628.3629.3630.3631.3632.3633.3634.3635.3636.3637.3638.3639.3640.3641.3642.3643.3644.3645.3646.3647.3648.3649.3650.3651.3652.3653.3654.3655.3656.3657.3658.3659.3660.3661.3662.3663.3664.3665.3666.3667.3668.3669.3670.3671.3672.3673.3674.3675.3676.3677.3678.3679.3680.3681.3682.3683.3684.3685.3686.3687.3688.3689.3690.3691.3692.3693.3694.3695.3696.3697.3698.3699.3700.3701.3702.3703.3704.3705.3706.3707.3708.3709.3710.3711.3712.3713.3714.3715.3716.3717.3718.3719.3720.3721.3722.3723.3724.3725.3726.3727.3728.3729.3730.3731.3732.3733.3734.3735.3736.3737.3738.3739.3740.3741.3742.3743.3744.3745.3746.3747.3748.3749.3750.3751.3752.3753.3754.3755.3756.3757.3758.3759.3760.3761.3762.3763.3764.3765.3766.3767.3768.3769.3770.3771.3772.3773.3774.3775.3776.3777.3778.3779.3780.3781.3782.3783.3784.3785.3786.3787.3788.3789.3790.3791.3792.3793.3794.3795.3796.3797.3798.3799.3800.3801.3802.3803.3804.3805.3806.3807.3808.3809.3810.3811.3812.3813.3814.3815.3816.3817.3818.3819.3820.3821.3822.3823.3824.3825.3826.3827.3828.3829.3830.3831.3832.3833.3834.3835.3836.3837.3838.3839.3840.3841.3842.3843.3844.3845.3846.3847.3848.3849.3850.3851.3852.3853.3854.3855.3856.3857.3858.3859.3860.3861.3862.3863.3864.3865.3866.3867.3868.3869.3870.3871.3872.3873.3874.3875.3876.3877.3878.3879.3880.3881.3882.3883.3884.3885.3886.3887.3888.3889.3890.3891.3892.3893.3894.3895.3896.3897.3898.3899.3900.3901.3902.3903.3904.3905.3906.3907.3908.3909.3910.3911.3912.3913.3914.3915.3916.3917.3918.3919.3920.3921.3922.3923.3924.3925.3926.3927.3928.3929.3930.3931.3932.3933.3934.3935.3936.3937.3938.3939.3940.3941.3942.3943.3944.3945.3946.3947.3948.3949.3950.3951.3952.3953.3954.3955.3956.3957.3958.3959.3960.3961.3962.3963.3964.3965.3966.3967.3968.3969.3970.3971.3972.3973.3974.3975.3976.3977.3978.3979.3980.3981.3982.3983.3984.3985.3986.3987.3988.3989.3990.3991.3992.3993.3994.3995.3996.3997.3998.3999.4000.4001.4002.4003.4004.4005.4006.4007.4008.4009.4010.4011.4012.4013.4014.4015.4016.4017.4018.4019.4020.4021.4022.4023.4024.4025.4026.4027.4028.4029.4030.4031.4032.4033.4034.4035.4036.4037.4038.4039.4040.4041.4042.4043.4044.4045.4046.4047.4048.4049.4050.4051.4052.4053.4054.4055.4056.4057.4058.4059.4060.4061.4062.4063.4064.4065.4066.4067.4068.4069.4070.4071.4072.4073.4074.4075.4076.4077.4078.4079.4080.4081.4082.4083.4084.4085.4086.4087.4088.4089.4090.4091.4092.4093.4094.4095.4096.4097.4098.4099.4100.4101.4102.4103.4104.4105.4106.4107.4108.4109.4110.4111.4112.4113.4114.4115.4116.4117.4118.4119.4120.4121.4122.4123.4124.4125.4126.4127.4128.4129.4130.4131.4132.4133.4134.4135.4136.4137.4138.4139.4140.4141.4142.4143.4144.4145.4146.4147.4148.4149.4150.4151.4152.4153.4154.4155.4156.4157.4158.4159.4160.4161.4162.4163.4164.4165.4166.4167.4168.4169.4170.4171.4172.4173.4174.4175.4176.4177.4178.4179.4180.4181.4182.4183.4184.4185.4186.4187.4188.4189.4190.4191.4192.4193.4194.4195.4196.4197.4198.4199.4200.4201.4202.4203.4204.4205.4206.4207.4208.4209.4210.4211.4212.4213.4214.4215.4216.4217.4218.4219.4220.4221.4222.4223.4224.4225.4226.4227.4228.4229.4230.4231.4232.4233.4234.4235.4236.4237.4238.4239.4240.4241.4242.4243.4244.4245.4246.4247.4248.4249.4250.4251.4252.4253.4254.4255.4256.4257.4258.4259.4260.4261.4262.4263.4264.4265.4266.4267.4268.4269.4270.4271.4272.4273.4274.4275.4276.4277.4278.4279.4280.4281.4282.4283.4284.4285.4286.4287.4288.4289.4290.4291.4292.4293.4294.4295.4296.4297.4298.4299.4300.4301.4302.4303.4304.4305.4306.4307.4308.4309.4310.4311.4312.4313.4314.4315.4316.4317.4318.4319.4320.4321.4322.4323.4324.4325.4326.4327.4328.4329.4330.4331.4332.4333.4334.4335.4336.4337.4338.4339.4340.4341.4342.4343.4344.4345.4346.4347.4348.4349.4350.4351.4352.4353.4354.4355.4356.4357.4358.4359.4360.4361.4362.4363.4364.4365.4366.4367.4368.4369.4370.4371.4372.4373.4374.4375.4376.4377.4378.4379.4380.4381.4382.4383.4384.4385.4386.4387.4388.4389.4390.4391.4392.4393.4394.4395.4396.4397.4398.4399.4400.4401.4402.4403.4404.4405.4406.4407.4408.4409.4410.4411.4412.4413.4414.4415.4416.4417.4418.4419.4420.4421.4422.4423.4424.4425.4426.4427.4428.4429.4430.4431.4432.4433.4434.4435.4436.4437.4438.4439.4440.4441.4442.4443.4444.4445.4446.4447.4448.4449.4450.4451.4452.4453.4454.4455.4456.4457.4458.4459.4460.4461.4462.4463.4464.4465.4466.4467.4468.4469.4470.4471.4472.4473.4474.4475.4476.4477.4478.4479.4480.4481.4482.4483.4484.4485.4486.4487.4488.4489.4490.4491.4492.4493.4494.4495.4496.4497.4498.4499.4500.4501.4502.4503.4504.4505.4506.4507.4508.4509.4510.4511.4512.4513.4514.4515.4516.4517.4518.4519.4520.4521.4522.4523.4524.4525.4526.4527.4528.4529.4530.4531.4532.4533.4534.4535.4536.4537.4538.4539.4540.4541.4542.4543.4544.4545.4546.4547.4548.4549.4550.4551.4552.4553.4554.4555.4556.4557.4558.4559.4560.4561.4562.4563.4564.4565.4566.4567.4568.4569.4570.4571.4572.4573.4574.4575.4576.4577.4578.4579.4580.4581.4582.4583.4584.4585.4586.4587.4588.4589.4590.4591.4592.4593.4594.4595.4596.4597.4598.4599.4600.4601.4602.4603.4604.4605.4606.4607.4608.4609.4610.4611.4612.4613.4614.4615.4616.4617.4618.4619.4620.4621.4622.4623.4624.4625.4626.4627.4628.4629.4630.4631.4632.4633.4634.4635.4636.4637.4638.4639.4640.4641.4642.4643.4644.4645.4646.4647.4648.4649.4650.4651.4652.4653.4654.4655.4656.4657.4658.4659.4660.4661.4662.4663.4664.4665.4666.4667.4668.4669.4670.4671.4672.4673.4674.4675.4676.4677.4678.4679.4680.4681.4682.4683.4684.4685.4686.4687.4688.4689.4690.4691.4692.4693.4694.4695.4696.4697.4698.4699.4700.4701.4702.4703.4704.4705.4706.4707.4708.4709.4710.4711.4712.4713.4714.4715.4716.4717.4718.4719.4720.4721.4722.4723.4724.4725.4726.4727.4728.4729.4730.4731.4732.4733.4734.4735.4736.4737.4738.4739.4740.4741.4742.4743.4744.4745.4746.4747.4748.4749.4750.4751.4752.4753.4754.4755.4756.4757.4758.4759.4760.4761.4762.4763.4764.4765.4766.4767.4768.4769.4770.4771.4772.4773.4774.4775.4776.4777.4778.4779.4780.4781.4782.4783.4784.4785.4786.4787.4788.4789.4790.4791.4792.4793.4794.4795.4796.4797.4798.4799.4800.4801.4802.4803.4804.4805.4806.4807.4808.4809.4810.4811.4812.4813.4814.4815.4816.4817.4818.4819.4820.4821.4822.4823.4824.4825.4826.4827.4828.4829.4830.4831.4832.4833.4834.4835.4836.4837.4838.4839.4840.4841.4842.4843.4844.4845.4846.4847.4848.4849.4850.4851.4852.4853.4854.4855.4856.4857.4858.4859.4860.4861.4862.4863.4864.4865.4866.4867.4868.4869.4870.4871.4872.4873.4874.4875.4876.4877.4878.4879.4880.4881.4882.4883.4884.4885.4886.4887.4888.4889.4890.4891.4892.4893.4894.4895.4896.4897.4898.4899.4900.4901.4902.4903.4904.4905.4906.4907.4908.4909.4910.4911.4912.4913.4914.4915.4916.4917.4918.4919.4920.4921.4922.4923.4924.4925.4926.4927.4928.4929.4930.4931.4932.4933.4934.4935.4936.4937.4938.4939.4940.4941.4942.4943.4944.4945.4946.4947.4948.4949.4950.4951.4952.4953.4954.4955.4956.4957.4958.4959.4960.4961.4962.4963.4964.4965.4966.4967.4968.4969.4970.4971.4972.4973.4974.4975.4976.4977.4978.4979.4980.4981.4982.4983.4984.4985.4986.4987.4988.4989.4990.4991.4992.4993.4994.4995.4996.4997.4998.4999.5000.5001.5002.5003.5004.5005.5006.5007.5008.5009.5010.5011.5012.5013.5014.5015.5016.5017.5018.5019.5020.5021.5022.5023.5024.5025.5026.5027.5028.5029.5030.5031.5032.5033.5034.5035.5036.5037.5038.5039.5040.5041.5042.5043.5044.5045.5046.5047.5048.5049.5050.5051.5052.5053.5054.5055.5056.5057.5058.5059.5060.5061.5062.5063.5064.5065.5066.5067.5068.5069.5070.5071.5072.5073.5074.5075.5076.5077.5078.5079.5080.5081.5082.5083.5084.5085.5086.5087.5088.5089.5090.5091.5092.5093.5094.5095.5096.5097.5098.5099.5100.5101.5102.5103.5104.5105.5106.5107.5108.5109.5110.5111.5112.5113.51