

REPORT ON OIL ENGINE MACHINERY.

No. 8981

11 APR 1935

Received at London Office

Date of writing Report

19

When handed in at Local Office

19

Port of

KOBE.

No. in Survey held at
Reg. Book.

KOBE & HARIMA.

Date, First Survey 12-2-34.

Last Survey 27-2-1935.

Number of Visits 86.

on the ^{Single}
~~Triple~~
~~Quadruple~~ Screw vessel

"KONGO MARU."

Tons { Gross 7061.
Net 3761.

at HARIMA. By whom built HARIMA S.B. & ENG CO LTD. Yard No. 205 When built 1935
made at KOBE. By whom made KAWASAKI DOCKYARD CO LTD. Engine No. 1600. When made 1935
Boilers made at HARIMA. By whom made HARIMA S.B. & ENG CO LTD. Boiler No. When made 1935.
Horse Power 3600. Owners KOKUSAI KISEN KUBUSHIKI KAISHA Port belonging to TOKIO.
Horse Power as per Rule 2115. Is Refrigerating Machinery fitted for cargo purposes NO. Is Electric Light fitted YES.
for which vessel is intended ALL SEAS. 27th 47th

ENGINES, &c.—Type of Engines MAN. 8 CYL. 70/120. 2 or 4 stroke cycle 2. Single or double acting DOUBLE.
pressure in cylinders 45 kg/cm². Diameter of cylinders 700 mm. Length of stroke 1200 mm. No. of cylinders 8. No. of cranks 8.
bearings, adjacent to the Crank, measured from inner edge to inner edge 1100 mm. Is there a bearing between each crank YES.
revs per minute 110. Flywheel dia. 2566 mm. Weight 6082 kgs. Means of ignition COMPRESSION. Kind of fuel used HEAVY OIL.

Shaft, dia. of journals as per Rule 478 mm. as fitted 525 mm. Crank pin dia. 525 mm. Crank Webs Mid. length breadth 850 mm. Thickness parallel to axis 330 mm.
M d. length thickness 330 mm. shrunk Thickness around eye hole 235 mm.

el Shaft, diameter as per Rule 525 mm. Intermediate Shafts, diameter as per Rule 425 mm. as fitted 432 mm. Thrust Shaft, diameter at collars as per Rule 490 mm.
as fitted 525 mm. as fitted 432 mm. as fitted 490 mm.

Shaft, diameter as per Rule 465 mm. as fitted 475 mm. Is the { screw } shaft fitted with a continuous liner { YES.

Liners, thickness in way of bushes as per Rule 22. as fitted 25 mm. Thickness between bushes as per rule 16.6. as fitted 20 mm. Is the after end of the liner made watertight in the

boss YES. If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner

ner 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

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

NO. If so, state type Length of Bearing in Stern Bush next to and supporting propeller 2140 mm.

er, dia. 5500. Pitch 4860 No. of blades 4. Material BRONZE whether Moveable YES. Total Developed Surface 986 sq. feet

of reversing Engines DIRECT. Is a governor or other arrangement fitted to prevent racing of the engine when decelerated YES. Means of lubrication

ED. Thickness of cylinder liners 40 mm. Are the cylinders fitted with safety valves YES. Are the exhaust pipes and silencers water cooled or lagged with

acting material LAGGED. If the exhaust is led overboard near the waterline, what means are arranged to prevent water from being syphoned back to the engine

Water Pumps, No. 3 Is the sea suction provided with an efficient strainer which can be cleared within the vessel YES.

pumps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work

connected to the Main Bilge Line { No. and Size 1 - 250 T/H. 1 - 100 T/H. 1 - 30 T/H. How driven ELECTRIC MOTOR.

Pumps, No. and size 1 - 250 T/H. Lubricating Oil Pumps, including Spare Pump, No. and size 2 - 75 m³/h.

independent means arranged for circulating water through the Oil Cooler YES. Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge

No. and size:—In Machinery Spaces (2 - 200 mm.) 2 - 140 mm. 6 - 90 mm. (3 - 65 mm. COFFERDAM) 1 - 100 mm. Some of these

, &c. No. 1. 2 - 90 mm. No. 2. 2 - 90 mm. No. 3. 2 - 90 mm. No. 4. (DEEPTANKS 4 - 120 mm. 2 - 90 mm. COFFERDAM) No. 5. 2 - 90 mm. No. 6. 2 - 90 mm.

ndent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 2 - 140 mm. 2 - 90 mm. 1 - 100 mm.

the Bilge Suction pipes in Holds and Tunnel Well fitted with strum-boxes. YES. Are the Bilge Suctions in the Machinery Spaces

easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges YES.

sea Connections fitted direct on the skin of the ship YES. Are they fitted with Valves or Cocks BOTH.

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.

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.

oes pass through the bunkers. How are they protected.

oes pass through the deep tanks. Have they been tested as per Rule.

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

angement 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

ment to another. YES. Is the Shaft Tunnel watertight YES. Is it fitted with a watertight door YES. worked from DECK.

d vessel, what means are provided to prevent leakage of either fuel oil or of lubricating oil from saturating the woodwork.

ir Compressors, No. No. of stages Diameters Stroke Driven by AUX. DIESEL GENERATOR.

ry Air Compressors, No. 2. No. of stages 2. Diameters 240 x 310 mm. Stroke 180 mm. Driven by ELECTRIC MOTOR.

auxiliary Air Compressors, No. 1. No. of stages Diameters Stroke Driven by SMALL AUX. DIESEL ENGINE.

ging Air Pumps, No. 1. TURBO-BLOWER. Diameter Stroke Driven by ELECTRIC MOTOR.

ry Engines crank shafts, diameter as per Rule 167.3 mm. as fitted 170 mm.

RECEIVERS:—Is each receiver, which can be isolated, fitted with a safety valve as per Rule YES.

n the internal surfaces of the receivers be examined. YES. What means are provided for cleaning their inner surfaces STEAM.

there a drain arrangement fitted at the lowest part of each receiver YES.

gh Pressure Air Receivers, No. Cubic capacity of each Internal diameter thickness

amless, lap welded or riveted longitudinal joint Material Range of tensile strength Working pressure by Rules

arting Air Receivers, No. 2. Total cubic capacity 30.78 m³ Internal diameter 1866.6 mm. thickness 15/16.

amless, lap welded or riveted longitudinal joint RIVETED. Material STEEL Range of tensile strength 28-32 T/d. Working pressure by Rules 30 kg/cm².

IS A DONKEY BOILER FITTED?

YES.

If so, is a report now forwarded?

YES.

PLANS. Are approved plans forwarded herewith for Shafting **MADE IN GERMANY.**
(If not, state date of approval)

Receivers

11-7-34.

Separate Tanks

14.4.33.

Donkey Boilers

27-6-34.

General Pumping Arrangements

13-6-34.

Oil Fuel Burning Arrangements

✓.

SPARE GEAR

CYLINDER COVER COMPLETE WITH VALVES SPRINGS & FITTINGS. TOP 2 SETS. BOTTOM 2 SETS.

CYLINDER LINERS. 2 SETS.

FUEL NEEDLE VALVES. TOP 24 SETS. BOTTOM 32 SETS.

CYLINDER SAFETY VALVES. 3 TOP 3 BOTTOM.

PISTON & ROD COMPLETE 2 SETS.

SCREW SHAFT. ONE.

TELESCOPIC COOLING PIPES. SET FOR 1 PISTON.

THRUST COLLAR PADS. 1 SET.

CAM SHAFT DRIVING SKEN WHEELS. 1 SET.

PROPELLER. ONE.

CYLINDER COVER STUDS & NUTS. 2 SETS.

TURBO BLOWER IMPELLER ONE, SHAFT ONE.

CROSSHEAD BRASSES BOLTS & NUTS 2 SETS.

FUEL PUMPS. COMPLETE SET FOR 4 CYLINDERS.

CRANKPIN BRASSES BOLTS & NUTS 1 SET.

STARTING VALVES 4 SETS.

CRANKSHAFT COUPLING BOLTS & NUTS 1 SET.

SOLID DRAWN STEEL PIPES.

INTERMEDIATE SHAFT COUPLING BOLTS & NUTS 1 SET.

MAIN BEARING BRASSES. BOLTS & NUTS 1 SET.

The foregoing is a correct description.

THE HARIMA SHIP-BUILDING
AND ENGINEERING CO., LTD.

Manufacturer.

Dates of Survey while building

During progress of work in shops - FEB/34. 12.14.19. MAR/34. 6.10.12. 22.30. APR/34. 7.11.16. 20.25.30. MAY/34. 9.14.15. 17.24.28. JUN/34. 4.11.15. 19.22. JUL/34. 6.13.14. 16.21. 23.27.30. SEP/34. 1.4.8.10.13.14.17.18.26.28. OCT/34. 3.6.8.10.11.12.16.18.20.26.27.29.31. NOV/34. 2.5.10.13.16.17.20.27.28.30. DEC/34. 5.7.11.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31. JAN/35. 1.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31. FEB/35. 1.16.27.

During erection on board vessel - DEC 3RD/34. JAN/35. 21ST, 28TH. FEB 21ST 25TH.

Total No. of visits 85.

Dates of Examination of principal parts - Cylinders 2.10.34. Covers. 10.11.34. Pistons 31.10.34. Rods 25.10.34. Connecting rods 1.7.35.

Crank shaft 11.8.34. Flywheel shaft 11.8.34. Thrust shaft 11.8.34. Intermediate shafts 25.9.34. Tube shaft 28.11.34.

Screw shafts 15.6.34. 19.27.7.34. Propeller 6.9.34. 10.2.35. Stern tube 13.11.34. Engine seatings 4.10.34. Engines holding down bolts 9.2.35.

Completion of fitting sea connections 3.12.34. Completion of pumping arrangements 10.2.35. Engines tried under working conditions 21.2.35.

Crank shaft, Material STEEL. Identification Mark MB. 10307. Flywheel shaft, Material LRN^o 4015A. Identification Mark R. NOS. 4126. 4145. 4149. 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.

Thrust shaft, Material STEEL. Identification Mark LRN^o 4015B. Intermediate shafts, Material Steel. Identification Marks R. NOS. 4126. 4145. 4149. 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