1903. NEW ZEALAND.

INSPECTION () H'

ANNUAL REPORT OF THE DEPARTMENT FOR 1902-3.

Presented to both Houses of the General Assembly by Command of His Excellency.

The Hon. the MINISTER of MARINE to His Excellency the Governor.

Inspection of Machinery Department,

My Lord,-

Wellington, 31st July, 1903.

I do myself the honour to transmit herewith, for Your Excellency's information. the report of the Inspection of Machinery Department of the colony for the financial vear I have, &c., ended the 31st March last.

His Excellency the

WM. HALL-JONES,

Right Hon. the Earl of Ranfurly,

Minister of Marine.

Governor of New Zealand.

The CHIEF INSPECTOR Of MACHINERY to the Hon. the MINISTER OF MARINE.

Inspection of Machinery Department,
Queen's Chambers, Wellington, 20th May, 1903.

I have the honour to submit herewith the annual report on the operations of the Inspection of Machinery Department for the twelve months which ended the 31st March, 1903 :-

Boilers.

During the financial year 4,463 steam-boilers were inspected, and all the machinery driven by these boilers was examined at the same time. This shows a slight increase on former years, but numbers do not always represent the increase of work, as much longer journeys have now to be made in the back portions of the various districts.

This branch of the Department is, with the exception of some parts of the Auckland District, practically up to date, and I can bear testimony to the zeal displayed by all the officers in the

performance of their arduous and varied duties.

Accident to Life and Limb connected with Boilers.

No accident occurred in New Zealand during the year whereby injury was caused to life or limb through a boiler explosion. This Department can congratulate itself on the result of another year free from accidents.

Owing to the high pressures now in use, the greatest possible care has been taken, and strict instructions are given to each Inspector to particularly satisfy himself in all cases. In some cases where brick flues are used the work is not of a very pleasant nature, but dampness in brickwork oftentimes leads to serious deterioration of the plate resting on the damp portion of the brick-

The only questions taken into consideration when granting a certificate for a boiler are, whether the boiler is safe for the intended working-pressure (no matter whether it is a high or a low one), and also whether the conditions under which the boiler is being worked are safe, more especially as regards the feed-water, as, if the latter is not attended to, serious defects may arise through pitting of the plates, and scale-formation on them. Defects also often occur through getting up steam too quickly from cold water, since some parts of the boiler are more readily heated than others, and unless great care is exercised, and sufficient time taken, unequal heating is bound to take place. It is equally injurious to blow off all the steam suddenly, empty the boilers, and open the dampers. The cooling influence operates much more rapidly upon the boiler itself than upon the brickwork seating. The better plan is not to blow off the steam, but to let the steam and water cool down, and then empty the boiler.

The certificates for boilers issued during the year total 4,463, being an increase of eighty-four

on the number issued last year.

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Government Boilers and Machinery.

All the boilers at Government institutions throughout the colony have been examined, and the new boiler installation designed by this Department for the Seacliff Asylum has now been in use for some time, and has been giving satisfactory results.

Defects in Boilers and Fittings.

These defects amounted to 388, and include defects in steam-gauges, water-gauges, blow-off connections, cracked and bulged plates, defective joints, leaky seams, &c. Some were serious, and if neglected would no doubt have caused trouble and accident. Owners, more especially in remote districts, are glad to have advice on these matters when the Inspector comes round, and all information is willingly given, and advice as to the best and least expensive way to remedy the defect.

New Boilers.

The total number added to our list is 483, and totals 6,746-horse power. Of this number, 217 were made in the colony, and 266 were imported. A very large installation has been put in the power-house of the Auckland Tramway Company, Auckland, the whole of the machinery and boilers being imported. The boilers are of the Babcock and Wilcox pattern, water-tube, and are

fitted with all up-to-date appliances.

The boiler-work done in the colony is now of a very high order, and most of the engineering firms have adopted the latest appliances to minimise labour and to insure a well-finished article. All the makers of imported boilers have now, with very few exceptions, adopted our standard of strength required for a given pressure, and very little friction has arisen through pressures given. The only safe rule is to adopt the very best, and make it compulsory and uniform both to local manufacturers and to manufacturers from abroad. This system, I consider, has tended to our immunity from accident in the past, and should not be departed from in the future.

Lifts, Gas- and Water-driven Machinery.

Under this heading 209 hydraulic lifts, sixty-three lifts driven by gas, steam, and electricity, eighty-eight gas and hydraulic hoists and electric motors, 341 water-driven machinery, 584 gasengines, and 133 oil-engines were inspected during the year, making a total of 1,418.

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A considerable amount of fencing was required to make the motors and machinery driven by them safe for those in attendance, and also a number of new ropes and chains were fitted and

repairs effected generally.

Fencing of Machinery.

A large number of written and verbal notices were issued to machinery owners to fence unguarded machinery, and little difficulty has been found in making all comply with the wishes of the Inspectors.

Examination of Engine-drivers.

The examination for this class of certificate has now become a very important and everincreasing branch of the Department. No service certificates are now issued (except under section 45 of the Act of 1902), so that all applicants must come up for examination; and, New Zealand being such a scattered colony, it has been necessary to hold examinations at numerous places. It is gratifying to know, however, that up to the present there are no arrears in this branch of the service, and that all demands have been met.

Candidates generally show up much better in the oral examination, and this examination brings out the fact very clearly that the standard of knowledge connected with the engine and boiler work of the engine-driver is increasing, and that he has been reading up from standard works on the subject. This knowledge should be available to his employer and make the engine-driver something more than a mere machine: it should lend an interest to every branch of his work, and should help him to perform more efficiently his many duties with economy to his

employer and with more satisfaction to himself.

There have been four examinations held at Auckland, Wellington, Christchurch, Dunedin, Invercargill, Timaru, and Nelson, extending over several days. Examinations have also been held at Gisborne, Hawera, New Plymouth, Stratford, Palmerston North, Napier, Dannevirke, Blenheim, Westport, Greymouth, Reefton, Hokitika, Kumara, Lawrence, Roxburgh, Alexandra South, Cromwell, and Clyde. Altogether 685 candidates passed these examinations successfully—seven extra first stationary, 148 first stationary, 357 second stationary, 147 traction and locomotive, and twenty-six winding-engine drivers.

ACCIDENTS.

Forty-nine accidents to life and limb connected with machinery have been reported to me. In Tables Nos. 5 and 6 are set out the names and ages of the persons injured, and cause of accident in each case. Table No. 5 shows the non-fatal accidents, and Table No. 6 shows the fatal accidents.

DISTRICTS AND INSPECTORS.

Two new district offices have been opened, one at Nelson and the other at Timaru, and both have been found to be most useful as centres, and have saved the expense of making long journeys from Wellington and Christchurch. Mr. McVicar, of the Canterbury District, was transferred to Nelson; and Mr. Williamson, who had been stationed for a short time in Canterbury, took charge of the Timaru office.

Mr. George Croll, who was the senior Inspector of Canterbury, retired on the 30th July, 1902, after twenty-six and a half years' service. He has borne an excellent character, both for ability and courteousness, combined with firmness, and during his long period of service no boiler explosion has occurred in his district. This speaks for the care and thoroughness of his work and method. His place has been filled by Mr. Carman, from Wellington.

Two new appointments have been made, Mr. W. R. Douglas and Mr. N. D. Hood. They are

at the present time both assisting in the Wellington District.

H.—15A.

Offices should, in the near future, be opened at Wanganui and Napier, to save the long journeys now made from Wellington. Napier is now becoming a fairly busy shipping port, and numerous journeys have to be made to cope with the survey of steamers there, owing to the shipping facilities being limited.

POSTAL AND POLICE AUTHORITIES.

This Department is much indebted to the Postal and Police authorities, who have rendered valuable assistance with reference to the boiler and machinery certificates.

"Inspection of Machinery Act, 1902."

By this Act the previous Inspection of Machinery Act of 1882 and the amending Acts of 1894. 1896, 1898, 1900, and 1901 were consolidated, and the principal sections were re-enacted. provisions affecting boilers and machinery are practically the same, but it would be well for every steam-user to make himself thoroughly cognisant of the clauses of the Act.

MARINE ENGINEERS' EXAMINATIONS.

The examinations have been held in alternate centres throughout the year, and at the following places away from headquarters: Gisborne, New Plymouth, Wanganui, Napier, Blenheim,

Westport, and Greymouth.

Every year shows a marked improvement in the work of candidates who present themselves, and this is notably the case with the third-class applicants, who are again very numerous. All the Examiners bear witness to the faithful reading of the young engineers from the workshop in matters pertaining to marine engineering, which is brought out very clearly in the oral examination held at these examinations. It is very gratifying to the Department to have such material to deal with, and, seeing so many of the promising boys take to engineering in the colony, no doubt this industry will be well able to hold its own as the colony gets more advanced.

Table No. 17 gives a list of the successful candidates, and the various grades in which they

passed, also the total number of applicants, the total fees payable, and the number who failed.

During the year new regulations were compiled by me, which are now in conformity with the Board of Trade Regulations as far as they could be made for New Zealand. New additional elementary questions have been added, containing questions on electric-light installations, comprising all the different points about the dynamo, and defects that might arise with the whole installation, as might be found on board ship. Questions have also been added connected with hydraulic installations, feed-heaters, filters, refrigerating machinery, comprising cold air, ammonia, &c. All these subjects show that the education of the modern marine engineer must be a very varied one; and where, say, at freezing-works and electric-light installations on shore, a separate staff is employed, the engineer on a steamer must be master of all these different classes of machinery when placed under his charge in the ship. Every day adds to his duties, and the Admiralties of both Great Britain and America are waking up to the importance of placing the engineers in their navies on a much better footing.

SURVEY OF SHIPS.

The work of this branch of the Department has been well kept up, and, with the exception of one or two of the outlying districts in Auckland, the surveys are practically up to date. At the ports of Auckland, Wellington, and Dunedin, special attention has been given to hulls and equipments of steamers, numerous surprise visits having been paid to steamers to examine their boats and equipments, but, as a rule, very little to find fault with has been discovered. This speaks volumes for the care and attention paid to these important matters of a ship's equipments which tend to the safety of the travelling public.

SURVEY FOR SEAWORTHINESS.

Twenty-four special surveys for seaworthiness were made during the year, comprising cases of grounding, collision, &c., a detailed list of which is given in Table 19. In some of these cases where grounding took place on a fairly soft bottom, a diver was employed for the external examination of the hull, but in any case of doubt docking was insisted on, so that a thorough examination could be made. These investigations have been made at all hours, and the judgment displayed by surveyors has been very clearly shown in numbers of cases. The shipowners generally are always glad to have the tried opinion of the officers of our Department in these times of disaster, and they on their part have facilitated our work very much by help generously given on many occasions. The fees earned by such surveys amount to £74 8s.

GOVERNMENT STEAMERS.

The following Government steamers were surveyed during the year -viz., the s.s. "Hinemoa," "Tutanekai," "Janie Seddon," "Lady Roberts," "Nile," "Gordon" (before sale), and the several torpedo boats, &c.

Excursion Steamers.

Seventy-five steamer excursions were allowed, representing the carriage of 26,017 passengers, and no trouble has arisen at any time throughout the year with any of these trips. These excursions have been scattered all over New Zealand, and are much appreciated by the public.

NEW STEAMERS.

Thirty-three steamers have been added to our books during the year, and comprise some very fine vessels, notably the "Aparima," and "Moeraki." The first one is a fine specimen of the modern cargo-boat with limited passenger accommodation, and the latter an up-to-date passenger modern cargo-boat with limited passenger accommodation, and the latter an up-to-date passenger steamer. The names of these vessels are as follows: "Anna," "Aotea," "Aparima," "Balmain," "Claymore," "Emma Sims," "Gosford," "Gypsy," "Huia," "Kapiti," "Kapui," "Karoro," "Kotahi," "Lity," "Little Jack," "Mahuta," "Mascotte," "May Howard," "Meremere," "Moeraki," "Mokau," "Nambucca," "Narcissus," "Nene," "Parera," "Phantom," "Ruru," "Tarakihi," "Tasman," "Tuiwiki," "Wave," "Whati," and "Yho."

SURVEY OF STEAMERS RETURN.

Table No. 18 gives a return of steamers surveyed in New Zealand during the year ended the 31st March, 1903, including the names of steamers, tons register, horse-power, nature of machinery,

and propeller.

The number of steamers surveyed was 238, the number of surveys made being 257. The fees

payable in respect of such surveys amounted to £1,588 10s.

RETURNS.

Appended are the returns in detail, numbered from 1 to 20.

 $(\overline{1.})$ Number and class of boilers inspected, and fees payable on these; the machinery inspected, and the fees payable thereon; and the classes and numbers of engine-drivers' certificates issued, and the fees payable therefor.

(2.) Return of defects found on inspection of boilers.
(3.) Return of notices given to repair boilers.

(4.) Return of notices given to fence dangerous parts of machinery.

(5.) Return of accidents which were not fatal.
(6.) Return of accidents which proved fatal.
(7), (8), (9), (10), (11), (12), (13), (14), (15), and (16). Names of all persons to whom land stationary certificates of service and competency have been granted during the year.

(17.) List of persons passed for marine engineers' certificates, with fees paid, during the year.

(18.) Return as to vessels surveyed during the year.

(19.) Return of vessels surveyed for seaworthiness, &c., during the year.

(20.) Return showing sums earned or received and amount expended during the financial year, for inspection of machinery, examination of engineers and engine-drivers, and survey of steamers.

ROBERT DUNCAN,

Chief Inspector of Machinery, Principal Engineer Surveyor of Steamers, and Chief Examiner of Marine Engineers and Land Engine-drivers.

RETURNS.

No. 1.

(a.) RETURN showing the Number of Land Stationary Boilers and Machinery inspected for which Certificates are issued, for the Financial Year ended 31st March, 1903.

Stationary—Five-horse power and under, 995; 10-horse power and over 5-horse power, 634; over 10-horse power, 1,237; digesters, 220: total, 3,086.

Portable—Five-horse power and under, 147; 10-horse power and over 5-horse power, 1,035;

over 10-horse power, 195: total, 1,377: total boilers, 4,463.

Machinery-

Hydraulic lifts, 209; gas lifts, 41; gas and water lifts, 5; electric lifts, 17; gas and hydraulic hoists and electric motors, 88; water engines, water motors, and water wheels, 117; peltons, 51; turbines, 173; gas engines, 584; oil engines, 133: total machinery, 1,418.

Grand total, 5,881.

(b.) RETURN showing Fees payable for the Inspection of Boilers and Machinery and for the ISSUE of Engine Drivers' Certificates during the Financial Year ended 31st March, 1903.

Fees payable—On boilers, £5,014 10s.; on machinery, £205 17s. 6d.: total, £5,220 7s. 6d.; for engine-drivers' certificates issued, £456 5s.: total, £5,676 12s. 6d. Government boilers and

lifts inspected, but not charged, represent the further sum of £30.

The cash actually received for fees for boilers and machinery and paid into the Public Account amounted to £5,329 5s. The difference is caused by boiler-owners paying late fees; and the cash actually received and paid into the Public Account for engine-drivers' application fees amounted to £631 0s. 6d. for the financial year ended 31st March, 1903. This amount includes fees for certificates not yet issued.

- (c). RETURN showing the Number of Service and Competency Certificates issued to Winding and Traction and Locomotivee Engine-drivers, and to Steam-stationary-engine Drivers, during the Financial Year ended 31st March, 1903.
- Steam winding: Service 3, fees 7s. 6d.; competency 26, fees, £13: total fees, £13 7s. 6d.

 Traction and locomotive: Service 8, fees £1; competency 147, fees £73 10s.: total fees,
- £74 10s. Steam stationary: Service—First class 176, fees £22; second class 101, fees £12 12s. 6d.; restricted second 2, fees 5s.: total service, 279; total fees, £34 17s. 6d. Competency—

Extra first class 7, fees £7; first class 148, fees £148; second class 357, fees £178 10s.: total competency, 512; fees, £333 10s.: total fees, £368 7s. 6d.

Summary of certificates issued: Service—Steam winding, 3: traction and locomotive, 8; stationary, 279: total, 290; total fees, service, £36 5s. Competency—Steam winding, 26; traction and locomotive, 147; stationary, 512: total, 685; total fees, competency, £420.

Totals: Steam winding certificates, 29; fees, £13 7s. 6d. Traction and locomotive certificates, 155; fees, £77, 6d. Total continuous contin

fees, £74 10s, Stationary certificates, 791; fees, £368 7s. 6d. Total certificates, 975; total fees, £456 5s.

No. 2.—Return of Defects found on inspection of boilers during the Financial Year ended 31st March, 1903.

Three hundred and eighty-eight defects were found out, of which forty-two were dangerous. Seventy-five defective fittings were found on inspection, of which five were dangerous.

No. 3 .- RETURN of NOTICES given to REPAIR BOILERS during the Financial Year ended 31st March, 1903.

Three hundred and fifty-three notices were given to repair boilers, and include boilers of the following types: Cornish, Lancashire, marine, portable, multitubular, semiportable, semitubular, traction, water-tube, and vertical flue.

No. 4.—RETURN of Notices given to fence Dangerous Parts of Machinery, &c., during the Financial Year ended 31st March, 1903.

One hundred and thirty notices were given to fence dangerous parts of machinery, including fly-wheels, gearing, spindles, emery-wheels, driving-belts, ends of shafts, scutchers, and pulleys.

Examples of Notices given.

Compensating ring round sludge-door in fire-box, also sludge-door in smoke-box to be made good. (Sawmill.)

Driving-belts of both engines, and circular saw to be securely fenced, and loose pulley fitted to saw. (Šawmill.)

Steel-wire rope for hoist to be renewed. (Grocers' hoist.)

Machinery to be securely fenced by substantial fencing as pointed out.

A stud to be fitted in the top part of the framework of the lower doorway. (Butcher's.)

Machinery to be securely fenced by substantial fencing as pointed out when inspecting, also
new and substantial lips, say, 9 in. by 3 in., to be fitted in the scutcher with an opening of not
more than 1½ in. (Flaxmill.)

No. 5.—Return of Accidents (not Fatal) in connection with Machinery during the Financial Year ending 31st March, 1903.

		Car Chaing 01		
Name and Address of Owner.	Description of Machinery.	Name and Age of Person injured.	Date and Nature of Accident.	Cause of Accident, and Remarks.
Satherley Bros., Appleby Aulsebrook and Co., Christ- church	Coaff-cutter Cocoa-nibbing machine	George Neu- man; aged 29 Charles Savage; aged 14	hand taken off 14th April, 1902: ends of second and third fingers on left	Hand caught by a string, which drew it through the rollers. Tips of fingers were caught in mitrewheels.
Robertson and Co., Phœnix Foun- dry, Wellington	Planing-machine	E. Rothe; aged	hand crushed 30th April, 1902: crushed tip of left-hand fore- finger	Allowed finger to rest on end of steam- chest, which was caught by tool.
W. Cable and Co., Foundry, Wellington	Overhead travelling- crane	H. Evans ; aged 16		
W. Cable and Co., Foundry, Wellington	Winch	W. Johnston; aged 17		Struck on forehead by handle of winch through carelessness.
John Overend, Rolleston Street, Wellington		Alexander Miller; aged 26	5th June, 1902: arm injured	Arm caught in cog-wheels of brick-machine.
Island Block Gold- dredging Com- pany, Miller's Flat	Steam-winch	Harold Williams; aged	5th July, 1902: crushed foot	Standing on winch when stopped to free stern-line. Enough steam was left to cause engines to make several revolutions. Foot drawn in between cogwheels.
Robertson and Co., Phœnix Foun- dry, Wellington	Turning-lathe	C. S. Newson aged 24	15th July, 1902: thumbon right hand crushed	Putting hand inside cylinder while boring and being caught by tool.
S. Luke and Co., Engineers, Wel- lington	Lathe	Foster May- nard; aged 18	14th August, 1902: finger caught by tool and top of fin-	His having accidentally set the lathe in motion.
Consolidated Gold- fields of New Zealand (Li- mited), Wealth of Nations Mine, Reefton	Cyanide-works	Errington Castle; aged 19	ger taken off 28th August, 1902: frac- ture of both bones of the arm below el- bow, break above elbow, and thigh broken	Making short-cut across shaft of tailings- wheel. Long overcoat caught in coupling and wound him round the shaft.
Timpany Bros., Sawmillers, In- vercargill	Hauling-engine	Michael Dooley; aged 22	6th September, 1902: foot crushed	crank.
Aulsebrook and Co., Christ- church	Starch-buck	George Henry Roseberry Wright; aged 18	11th September, 1902: thumb on right hand crushed	Neglected to stop chain when clearing away starch. Thumb caught between chain and wheel.
Griffin and Sons (Limited), Con- fectioners, Nel- son	Lift	John Chapman; aged 51	15th September, 1902: injury to head	Lift well fenced, but overbalanced reaching over well and fell over. Caused through his own carelessness.
Mahinapua Saw- milling Com- pany, Lake Ma- hinapua	Sawmill	Richard Thos. Webb; aged 54	17th September, 1902: injury in groin	Piece of wood flew off saw and struck Webb in groin.
John Hammett, 63, Selwyn Street, Adding- ton	Circular-saw	William Sykes; aged 22	17th September, 1902: two fin- gers cut off	Hand slipped off piece of wood he was cutting on to saw.
Herbert Gardiner, Irwell	Water-wheel	John Edwards; aged 23	19th September, 1902: left arm torn off above elbow	Well protected. Edwards went inside and laid over shaft while wheel in motion to pick up chain in the water, and his clothes became entangled.
Premier Gold- dredging Com- pany, Buller River	Stationary engine	Thomas Powick; aged 59	20th September, 1902: two fin- gers taken off and one crushed	Cleaning engine. End of waste caught in cogs and drew in hand.
Prince of Wales' Dredging Com- pany, Ross	Dredge	William Mur- ray; aged 24	25th September, 1902: crushed foot	Placed foot on frame of winch, when drum, slowly revolving, caught his foot.
W. Collingwood, Kaimata, Ingle- wood	Chaff-cutter	W. Colling- wood; aged 55	6th October,	Put hand on feed-box while looking around, and got hand in press.
Robertson and Co., Phœnix Foun- dry, Wellington	Lifting-tackle	J. Prenderville; aged 18	7th October, 1902: top of little finger on left hand crushed	Tackle slipping, and he did not notice that his hand was in danger.
Greenstone Creek Gold - dredging Company, via Kumara	Dredge	T. Reynolds; aged 38	9th October, 1902: face cut	

No. 5.—RETURN of ACCIDENTS not Fatal—continued.

Name and Address of Owner.	Description of Machinery.	Name and Age of Person injured.	Date and Nature of Accident.	Cause of Accident, and Remarks.
Stratford, Blair, and Co., Saw- millers, Grey- mouth	Steam-winch	William Corkill; aged 40	23rd October, 1902: right thumbcrushed	Hand caught in winch-cogs.
James Macalister, Invercargill	Emery-wheel	D. W. Hurst- house; aged 24	24th October, 1902: top of thumbground	Holding washers in his hands instead o in tongs.
W. Cable and Co., Foundry, Wel- lington	Lathe	R. Priddey;	off 1st November, 1902: top of finger taken off	Carelessness.
S. Luke and Co., Engineers, Wel- lington	Drilling-machine	N. A. McLean; aged 18		Wiping cog-wheels of machine in motion unknown to fireman.
W. Cable and Co., Foundry, Wel- lington	Lathe	R. Flint, jun.;	from first joint 3rd December, 1902: top of finger crushed	Carelesyness.
Bowron and But- cher, Flaxmill, Tuhara	Stripper	Nepia Peta; aged 21	22nd December, 1902: left el- bow wounded	Cover of stripper fell on elbow and out it.
L. E. Avery, Spring Grove, Nelson		Leonard Fow- ler; aged 31	6th January, 1903: loss of arm	Accidentally placed his hand on the knives.
Prouse Bros., Timber-mer- chants, Welling- ton	Moulding-machine	David Chap- man; aged 16	7th January, 1903: belt breaking	Belt-fastener struck Chapman on cheek flesh wound only.
Aulsebrook and Co., Christ- church	Caramel-machine	Edith Roger- son; aged 20	12th January, 1903: crushed and cut right hand	Reaching over machine with left hand while right hand was feeding the dough into the machine; right hand caught between the rollers.
Strand Bros., Builders, Lower Hutt	Planing-machine	Edwin Spilman	13th January, 1903: loss of three fingers	Lost his balance, and put out his hand to prevent falling; his hand was caught in the knives.
Waihi Gold-min- ing Company, Waihi	Filter-press	A. Strom, aged 36; and B. Connell, aged 40	21st January, 1903: three	Working filter-press. Fingers crushed between spur and pinion of closing gear, though warned not to put their hands on wheel.
Chapman, O'Neil, and Co., Saw- millers, Wai- taha	Breaking-down bench	D. Stewart; aged 28	21st January, 1903: cut on small finger right hand	Hands slipped on to saw.
W. Cable and Co., Foundry, Wellington	Drilling-machine	H. Hutcheson; aged 21	28th January, 1903: flesh taken off fin- gers	Whilst drilling a flange the flange slipped and his fingers were caught. Carelessness.
J. K. Christenson, Butter-factory, Rockville	Force-pump	George Rowe; aged 17	20th February, 1903: arm broken	Trying to pull off belt while in motion. Sleeve caught, and arm was drawn in between belt and pulley.
W. Cable and Co., Foundry, Wellington	Emery stone	J. Smith; aged 17	24th February, 1903: nail taken off fin-	Carelessness.
Griffin and Sons (Limited), Biscuit, &c., Manufacturers, Nelson	Dough-roller	George Ruff; aged 22	24th February, 1903: hand crushed slightly	Hand drawn into rollers.
Aulsebrook and Co., Christ- church	Chocolate-refiner	Alfred George Linn; aged 22	26th February, 1903: fore-fin- ger left hand crushed in cog-wheels and ampu- tated at second joint	Taking tin from under right-hand side of machine with left hand instead of right hand.
A. H. Webb, Builder, Mon- treal Street, Sydenham	Surface-planer	William Webb; aged 19		Planing-wood slipped, and took his fin gers on to knife.
Waimumu Gold dredging Company (Limited), Dunedin	Dredge	W. White; aged 29		Taking off manhole-door of boiler before pressure was gone.

No. 6.—Return of Accidents which proved Fatal in connection with Machinery during the Financial Year ended 31st March, 1903.

Name and Address of Owner.	Description of Machinery.	Name and Age of Person injured.	Date and Nature of Accident.	Cause of Accident, and Remarks.
A. Wilson and A. Morris, May- field	Threshing-mill	Arthur Frisby ; aged 22	2nd April, 1902	Leaning against wheel just before it was started.
Excelsior Gold- dredging Com- pany, Dunedin	Winch	James Cummings; aged 27	2nd May, 1902: winch broke, and fragment of pinion struck de- ceased on head	Breaking of intermediate pinion on winch.
J. C. Dender, Porl Butcher, Pal- merston North		Conrad Dender aged 5	10th June, 1902: fracture of skull	Caught by clothes on shaft of fly-wheel.
Champion Gold- mining Com- pany (Limited), Beaumont	Steam-dredge	William Frederick Bishop; aged 31	20th June, 1902: right arm, with flesh and muscles of chest, torn off, and scalp wound	Clothes caught by a stud alongside the bevel pinion that drives the screen and pulled in.
Golden Glen Gold- dredging Com- pany, Roxburgh	Gold-dredge	Peter Muller; age 24	30th October, 1902: right leg cut off at knee, and the other broken at ankle	Log breaking under ladder upon which it was resting, deceased caught in coils of ladder which he was coiling.
Tiratu Sawmills Company, Dan- nevirke	Planing-machine	Frederick Cook; aged 32	18th November, 1902: carried round shaft	Apron caught on intermediate shaft going up a ladder, where he had no right.
Clayton and Co., Gisborne	Grindstone	David Curtain; aged 50	7th January, 1903: arm torn off, and internal inju- ries	Handling belt while in motion; drawn round shafting.
J. A. McLachlan, crushing-plant, Greenhills, Otago	Intermediate shaft	Ernest Ris- setto; aged 39	31st January, 1903: drawn round shaft	Trying to put belt on while in motion against orders.
	Intermediate shaft	Henry Smith; aged 57	26th February, 1903: whirled round shaft, striking joists, and then thrown down	Shifting belt while in motion loosely clothed.

No. 7.—Return of Steam-winding-engine Drivers to whom Certificates of Service have been granted from 1st April, 1902, to 31st March, 1903.

No. and Name of Person.					Date of Issue.
45. John Hayes	• •	• •	• •	• •	December 5, 1902.
46. William Stirling McDonald	• •	• •	• •	• •	. ,
47. Bernard William Shea	• •		• •	• •	March 31, 1903.

No. 8.—Return of Steam-winding-engine Drivers to whom Certificates of Competency have been granted from 1st April, 1902, to 31st March, 1903.

No. and Name of Person.		Da	te of 1		No. and Name of Person.	Da	te of Isa 1902.	sue.
235. Melbourne Parry			May	24	249. John Rodden		Dec.	5
236. Henry Smith	••	• •	,,	24	250. Albert Ernest Brown		,,	5
237. William George Mutton			,,	24	251. Joseph Bolitho		"	5
238. Alfred George Strong			"	24	252. Henry Brennan Kerr		,,	5
239. Patrick Joseph McCarthy			"	24	253. William Skinner Strongman		,,	5
240. Patrick Meehan			Aug.	25	254. Frederick James Tattley			5
241. William Brentnall, jun.			,,	25	•		1903.	
242. Matthew Jensen			"	25	255. James Harrison		Mar.	31
243. Arthur Henry Ellis			" -	25	256. Daniel Crawford		,,	31
244. James Edward Morilleau			,,	25	257. Alfred Henry Trembath		,,	31
245. Richard Edmond Verran			,,	25	258. Walter Cressy		,	31
246. William John Atherton			Dec.	5	259. John Findlay		,,	31
247. John Meehan			,,	5	260. Herbert Gebbie		,,	31
248. Michael Moye			"	5				

No. 9.—Return of Traction and Locomotive-engine Drivers to whom Certificates of Service have been granted from 1st April, 1902, to 31st March, 1903.

No. and Name of Person.			te of Is 1902.	sue.	No. and Name of Person.	Date of Issue 1902.					
	538. John Darlington Asbury			May	24	542. Charles Henrick John Schroder		Aug.	25		
	539. Arthur Stewart			,,	24	543. George Herbert Mends		$\mathbf{Dec}.$	5		
	540. James Dunsmuir		• •	July	17	544. Angus McGarvick		"	5		
	541. Charles Edward Trickett			"	17	545. Henry Hamilton	• •	"	5		

No. 10.—Return of Traction and Locomotive-engine Drivers to whom Certificates of Competency have been granted from 1st April, 1902, to 31st March, 1903.

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No. and Name of Person.		Da	te of Is: 1902.		No. a	nd Name of Person.		Da	te of Iss 1902.	sue.
740. Robert Simmers, jun.			May		814.	Thomas Duncan McLachla	n		Dec.	5
741. James Nicol McColl		• • • • • • • • • • • • • • • • • • • •	•	24			••	• •	_ ,,	5
	••		"	$\overline{24}$		Robert Beattie	••			5
742. Thomas Stevenson, jun.	• •	• •	"	$\frac{24}{24}$		36' 1 1 5 7			"	5
743. William John Coburn	• •	• •	"	$\frac{24}{24}$		~ · · · ·	• •	• •	"	5
744. Jacob Walter Manning	• •	• •	"	24		T.1 MC-1 -1 Character 11	• •	• •	"	5
745. Edwin James Brogden	• •	• •	"			T	• •	• •	"	
746. Albert Henry Kimber	• •	• •	"	24	820.	James Thomas	• •	• •	"	5
747. John Charles Lee		• •	"	24	821.	Robert George Paul Thomas Walsh William Wood Biddick	• •	• •	"	5
748. Andrew Swanston, jun.			"	24	822.	Thomas Walsh	• •	• •	"	5
749. Robert Drury		• •	,,	24	823.	William Wood Biddick		• •	"	5
750. Charles Bradley			,,	24	824.				"	5
751. Augustus Stevens Hicks			"	24	825.	James Francis Kearney			,,	5
752. Alexander Leslie			,,	24		Hugh Robert Ledgerwood			,,	5
753. William McDowell			,,	24		******			,,	5
754. William Robertson		• • •		24		******* 3.F 1			,,	5
755. Edward Turley		• •	"	24		Leonard Herbert Philpott			,,	5
			"	24			••		",	5
	• •	• •	"	24		Alfred Alexander Wilson				5
757. Alfred Craig	• •	• • •	"	24		Henry William Zimmerma		• •	"	5
758. Charles Herbert Bycroft		• •	"					• •	"	5
759. Henry Hurley	• •	••	"	24		Hilary Francis Maindonald	ı	• •	"	5
760. Richard Lyons Roe	• • •	• •	* "	24		Patrick Burke	• •	• •	"	5
761. Arthur Edward Harold Fre	eth	• •	July	17		John Cooper	• •		"	5
762. Hanibal Thomas		• •	"	17			• •	• •	"	5
763. Andrew Fitzgerald		• •	"	17			• •		"	5
764. John Ivanhoe Hayman			,,	17	838.	John King			"	5
765. George Arthur Ryde			,,	17	839.	Angus Neil Matheson	••		"	5
766. William Speirs			,,	17	840.	Albert Richard James Mely	7 in		"	5
767. James Manchester	••		,,	17		Roderick McDonald			,,	5
768. Henry Caleb Kilgour			,,	17	842.	James King McIntosh			,,	5
769. Edward Michael Quinn		• •	~	17					,,	5
770. James Douglas Falconer		• • • • • • • • • • • • • • • • • • • •	Aug.	25					,,	5
			-	25		T 75 74 1			"	5
771. Gilbert McKay	• •	••	"	25						5
772. Norman George Green	••	• •	"	25					"	5
773. James Greenaway	• •	• •	"		040			• •	"	5
774. Edward Jasper Levett	• •	• •	"	25			• •	• •	".	
775. Frank Newman Dixon	• •	• •	"	25	849.	William Kay	• •	• •	"	5
776. James Henry Naylor	• •		"	25	850.	Henry John Charles King	• •		#	5
777. John Henry Timms			,,	25	851.		• •		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5
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778. John Anderson 779. Stephen Thompson 780. William Williams 781. Leonard Thomas Woodfiel 782. James Walker Strachan 783. Andrew Albert Morris 784. Reginald Cameron 785. Robert Geddes 786. Duncan Turner McPhedra 787. Frederick James Wooffindi 788. Walter Henry Batchelor 789. Samuel Robinson 790. William Henry Collis 791. George David Nairn Glover 792. Kennard Richers Snowden 793. John Aitken 794. George Victor Cross 795. Diederick Gerken 796. Alexander Rankin Jenkins 797. Alexander Rankin Jenkins 797. Alexander McKinnon 798. Henry Payne 799. William Robertson 800. Thomas Neil 801. James Patrick Ryan 802. Robert Wylie 803. William John Ledgerwood 804. Gilbert Huston 805. Thomas Henry Love 806. Esau Lee 807. John Ruff 808. John Smith	d		"" "" "" "" "" "" "" "" "" "" "" "" ""	25 25 25 25 25 25 25 25 25 25 25 25 25 2	852. 853. 854. 855. 856. 857. 858. 860. 861. 863. 864. 865. 866. 867. 871. 873. 874. 875. 876. 877. 878.	David Henry Madill Herbert Dutton Powdrell James Leander Poulter Percy Edge Albert Hadley William Thomas Sadd William Reginald Sadgrove William Lewis Luxford William Lewis Luxford William Robert Aicken Douglas Henry Shortcliffe James Bowring John Carson Thomas William Griffin David Ledgerwood John Winter Frederick Holland William Bruoe John Talbot Byers John Talbot Byers John Fowler, jun. Andrew Frame Patrick Ledingham William Forbes Richard Bunton David William Maslin Robert Watson McIntosh James Hart Smith Louis Walker James Ritchie Williams Charles Leslie Grant Philip John Dare Edward Thorneycroft Frost			1908 Mar.	3. 31 31 31 31 31 31 31 31 31 31 31 31 31
778. John Anderson 779. Stephen Thompson 780. William Williams 781. Leonard Thomas Woodfiel 782. James Walker Strachan 783. Andrew Albert Morris 784. Reginald Cameron 785. Robert Geddes 786. Duncan Turner McPhedra 787. Frederick James Wooffindi 788. Walter Henry Batchelor 789. Samuel Robinson 790. William Henry Collis 791. George David Nairn Glovel 792. Kennard Richers Snowden 793. John Aitken 794. George Victor Cross 795. Diederick Gerken 796. Alexander Rankin Jenkins 797. Alexander McKinnon 798. Henry Payne 799. William Robertson 800. Thomas Neil 801. James Patrick Ryan 802. Robert Wylie 803. William John Ledgerwood 804. Gilbert Huston 805. Thomas Henry Love 806. Esau Lee 807. John Ruff 808. John Smith 809. Edward Williams	d		"" "" "" "" "" "" "" "" "" "" "" "" ""	25 25 25 25 25 25 25 25 25 25 25 25 25 2	852. 853. 854. 855. 856. 857. 858. 862. 863. 864. 865. 866. 867. 868. 870. 871. 872. 873. 874. 875. 879. 880. 881.	David Henry Madill Herbert Dutton Powdrell James Leander Poulter Percy Edge Albert Hadley William Thomas Sadd William Reginald Sadgrove William Lewis Luxford William Robert Aicken Douglas Henry Shortcliffe James Bowring John Carson Thomas William Griffin David Ledgerwood John Winter Frederick Holland William Bruce John Talbot Byers John Talbot Byers John Fowler, jun. Andrew Frame Patrick Ledingham William Forbes Richard Bunton David William Maslin Robert Watson McIntosh James Hart Smith Louis Walker James Ritchie Williams Charles Leslie Grant Philip John Dare Edward Thorneycroft Frost Charles Alexander Brown S			1908 Mar.	3. 31 31 31 31 31 31 31 31 31 31 31 31 31
778. John Anderson 779. Stephen Thompson 780. William Williams 781. Leonard Thomas Woodfiel 782. James Walker Strachan 783. Andrew Albert Morris 784. Reginald Cameron 785. Robert Geddes 786. Duncan Turner McPhedra 787. Frederick James Wooffindi 788. Walter Henry Batchelor 789. Samuel Robinson 790. William Henry Collis 791. George David Nairn Glover 792. Kennard Richers Snowden 793. John Aitken 794. George Victor Cross 795. Diederick Gerken 796. Alexander Rankin Jenkins 797. Alexander McKinnon 798. Henry Payne 799. William Robertson 800. Thomas Neil 801. James Patrick Ryan 802. Robert Wylie 803. William John Ledgerwood 804. Gilbert Huston 805. Thomas Henry Love 806. Esau Lee 807. John Ruff 808. John Smith 809. Edward Williams 810. Ernest Bezar	d		"" "" "" "" "" "" "" "" "" "" "" "" ""	25 25 25 25 25 25 25 25 25 25 25 25 25 2	852. 853. 854. 855. 856. 857. 860. 861. 862. 863. 864. 865. 866. 871. 872. 873. 874. 875. 876. 877. 878.	David Henry Madill Herbert Dutton Powdrell James Leander Poulter Percy Edge Albert Hadley William Thomas Sadd William Reginald Sadgrove William Lewis Luxford William Robert Aicken Douglas Henry Shortcliffe James Bowring John Carson Thomas William Griffin David Ledgerwood John Winter Frederick Holland William Bruce John Talbot Byers John Fowler, jun. Andrew Frame Patrick Ledingham William Forbes Richard Bunton David William Maslin Robert Watson McIntosh James Hart Smith Louis Walker James Ritchie Williams Charles Leslie Grant Philip John Dare Edward Thorneycroft Frost Charles Alexander Brown & Roby Brighouse			1908 Mar.	3. 31 31 31 31 31 31 31 31 31 31 31 31 31
778. John Anderson 779. Stephen Thompson 780. William Williams 781. Leonard Thomas Woodfiel 782. James Walker Strachan 783. Andrew Albert Morris 784. Reginald Cameron 785. Robert Geddes 786. Duncan Turner McPhedraf 787. Frederick James Wooffindi 788. Walter Henry Batchelor 789. Samuel Robinson 790. William Henry Collis 791. George David Nairn Glover 792. Kennard Richers Snowden 793. John Aitken 794. George Victor Cross 795. Diederick Gerken 796. Alexander Rankin Jenkins 797. Alexander McKinnon 798. Henry Payne 799. William Robertson 800. Thomas Neil 801. James Patrick Ryan 802. Robert Wylie 803. William John Ledgerwood 804. Gilbert Huston 805. Thomas Henry Love 806. Esau Lee 807. John Ruff 808. John Smith 809. Edward Williams 810. Ernest Bezar 811. William James Lewis	d		"" "" "" "" "" "" "" "" "" "" "" "" ""	25 25 25 25 25 25 25 25 25 25 25 25 25 2	852. 853. 854. 855. 856. 857. 868. 864. 865. 866. 867. 868. 869. 871. 872. 873. 874. 875. 876. 877. 878.	David Henry Madill Herbert Dutton Powdrell James Leander Poulter Percy Edge Albert Hadley William Thomas Sadd William Reginald Sadgrove William Lewis Luxford William Robert Aicken Douglas Henry Shortcliffe James Bowring John Carson Thomas William Griffin David Ledgerwood John Winter Frederick Holland William Bruce John Talbot Byers John Fowler, jun. Andrew Frame Patrick Ledingham William Forbes Richard Bunton David William Maslin Robert Watson McIntosh James Ritchie Williams Charles Leslie Grant Philip John Dare Edward Thorneycroft Frost Charles Alexander Brown S Roby Brighouse Robert Henry Witt			1905 Mar.	3. 31 31 31 31 31 31 31 31 31 31 31 31 31
778. John Anderson 779. Stephen Thompson 780. William Williams 781. Leonard Thomas Woodfiel 782. James Walker Strachan 783. Andrew Albert Morris 784. Reginald Cameron 785. Robert Geddes 786. Duncan Turner McPhedra 787. Frederick James Wooffindi 788. Walter Henry Batchelor 789. Samuel Robinson 790. William Henry Collis 791. George David Nairn Glover 792. Kennard Richers Snowden 793. John Aitken 794. George Victor Cross 795. Diederick Gerken 796. Alexander Rankin Jenkins 797. Alexander Rankin Jenkins 797. Alexander McKinnon 798. Henry Payne 799. William Robertson 800. Thomas Neil 801. James Patrick Ryan 802. Robert Wylie 803. William John Ledgerwood 804. Gilbert Huston 805. Thomas Henry Love 806. Esau Lee 807. John Ruff 808. John Smith 809. Edward Williams 810. Ernest Bezar 811. William James Lewis 812. William McLeod Ross	d		Dec.	25 25 25 25 25 25 25 25 25 25 25 25 25 2	852. 853. 854. 855. 856. 857. 862. 863. 864. 866. 867. 868. 869. 871. 872. 873. 874. 875. 879. 880. 881. 882.	David Henry Madill Herbert Dutton Powdrell James Leander Poulter Percy Edge Albert Hadley William Thomas Sadd William Reginald Sadgrove William Lewis Luxford William Lewis Luxford William Robert Aicken Douglas Henry Shortcliffe James Bowring John Carson Thomas William Griffin David Ledgerwood John Winter Frederick Holland William Bruce John Talbot Byers John Talbot Byers John Fowler, jun. Andrew Frame Patrick Ledingham William Forbes Richard Bunton David William Maslin Robert Watson McIntosh James Hart Smith Louis Walker James Ritchie Williams Charles Leslie Grant Philip John Dare Edward Thorneycroft Frost Charles Alexander Brown S Roby Brighouse Robert Henry Witt John Cuff			1908 Mar.	3. 31 31 31 31 31 31 31 31 31 31 31 31 31
778. John Anderson 779. Stephen Thompson 780. William Williams 781. Leonard Thomas Woodfiel 782. James Walker Strachan 783. Andrew Albert Morris 784. Reginald Cameron 785. Robert Geddes 786. Duncan Turner McPhedraf 787. Frederick James Wooffindi 788. Walter Henry Batchelor 789. Samuel Robinson 790. William Henry Collis 791. George David Nairn Glover 792. Kennard Richers Snowden 793. John Aitken 794. George Victor Cross 795. Diederick Gerken 796. Alexander Rankin Jenkins 797. Alexander McKinnon 798. Henry Payne 799. William Robertson 800. Thomas Neil 801. James Patrick Ryan 802. Robert Wylie 803. William John Ledgerwood 804. Gilbert Huston 805. Thomas Henry Love 806. Esau Lee 807. John Ruff 808. John Smith 809. Edward Williams 810. Ernest Bezar 811. William James Lewis	d		Dec.	25 25 25 25 25 25 25 25 25 25 25 25 25 2	852. 853. 854. 855. 856. 857. 862. 863. 864. 866. 867. 868. 869. 871. 872. 873. 874. 875. 879. 880. 881. 882.	David Henry Madill Herbert Dutton Powdrell James Leander Poulter Percy Edge Albert Hadley William Thomas Sadd William Reginald Sadgrove William Lewis Luxford William Robert Aicken Douglas Henry Shortcliffe James Bowring John Carson Thomas William Griffin David Ledgerwood John Winter Frederick Holland William Bruce John Talbot Byers John Fowler, jun. Andrew Frame Patrick Ledingham William Forbes Richard Bunton David William Maslin Robert Watson McIntosh James Ritchie Williams Charles Leslie Grant Philip John Dare Edward Thorneycroft Frost Charles Alexander Brown S Roby Brighouse Robert Henry Witt			1905 Mar.	3. 31 31 31 31 31 31 31 31 31 31 31 31 31

No. 11.—Return of First-class Stationary-engine Drivers to whom Certificates of Service have been granted from 1st April, 1902, to 31st March, 1903.

have been	GRANTED	from 1	st Aj	pril, 1902, to 31st March, 1903.		
No. and Name of Person.		Date of		No. and Name of Person.	Da	te of Issue. 1902.
1000 Walter Woodgrove Dlott		1909 Man	1	1471. Roland Thomas White		Aug. 25
1382. Walter Woodgrove Platt 1383. Alexander Louden		May	24	1472. John Gowans	• • •	Dec. 5
1384. George Paradise Nash		. "	24	1473. Wallace Greenhalgh		" 5
1385. James George Olson		"	24	1474. John Hayes		" 5
1386. Ole Anderson		"	24	1475. Francis Henry		" 5
1387. Horatio Dixon		"	24	1476. Hugh Munro		" 5
1388. Richard William Girven		"	24	1477. Donald McIntosh	• •	" 5 " 5
1389. Arthur Lambert Dowden		• • "	24	1478. Richard Page	• •	Ε.
1390. Arthur Harman		"	$\frac{24}{24}$	1479. John Samuel Robertson 1480. James Whyte	• •	″ 5 ″ 5
1391. Henry Reade Hodding 1392. Frank Lewis Harrison		"	24	1481. Alexander Coutts	• •	″ 5
1393. William Delahoyde		"	$\frac{1}{24}$	1482. Henry Dustin		" 5
1394. James Grimwood		"	24	1483. William Rowley Entwistle		" 5
1395. Edward Francis Kelly	••	• • "	24	1484. Hugh Faulds	• •	" 5
1396. Peter McLennan		"	24	1485. Robert Flint	• •	" 5 " 5
1397. William Frederick Ranki		• • "	24	1486. Augustus Stevens Hicks	• •	E
1398. John Symon		•• "	$\frac{24}{24}$	1487. Gordon Hughan		" 5 " 5
1399. Charles Albert Thiede 1400. Frank Oldham White		"	$\frac{24}{24}$	1489. Michael John Mulholland	• •	" 5
1401. John Thow		"	$\frac{24}{24}$	1490. Robert Robertson		, 5
		•• "	24	1491. James Roy		" 5
1403. George Anderson		"	24	1492. Andrew Wynd	• •	" 5
		"	24	1493. William Bringans	• •	" 5
1405. Hugh Blaikie Ross Crozie		•• "	24	1494. John Buchanan	. :	" 5 " 5
1406. William Cowan Jamieson		"	$\frac{24}{24}$	1495. William James Dickens 1496. David Hepburn	• •	" 5 " 5
1407. Walter Ernest Potts 1408. John Telford		"	24	1497. Edward Hughes		″ 5
1409. Peter Wilson		"	24	1498. Joshua Mallett		" 5
1410. Alexander Richard McNe		"	$\frac{24}{24}$	1499. Frederick William Meikle		" 5
1411. Thomas Andrew Simpson		"	24	1500. John Harold Moody	• •	" 5
1412. Thomas Hartley		"	24	1501. John Ovens	• •	" 5
			24	1502. Charles Treaton Price	• •	" 5 " 5
1414. Charles George Langham		"	$\frac{24}{24}$	1503. William Shiel	• •	F.
1415. Wil iam Henry Hughes 1416. Charles Alexander Hudso		• • "	24	1505. Joseph Bradcock	• •	" 5 " 5
		"	24	1506. Harry Howard Gould		, 5
1418. George Guild		"	24	1507. Sydney Richards		" 5
1410 Woolsey Allen jun		July	17	1508. Thomas George Smith		" 5
1420. John Austin		"	17	1509. Otto Wassberg	• •	" 5
1421. William Thomas Barnsda	le	"	17	1510. Edward John Hill	• •	, 5
		"	17	1511. Herbert Douglas Knight	• •	" 5 " 5
1423. Edward Holland		• • "	$\frac{17}{17}$	1512. Andrew Ernest Kusabs 1513. Robert David Gilmour Smith		5
1424. James Christie Knowles 1425. Francis William Mowatt		"	17	1514: Frank Ropert Brown		" 5 " 5
1426. William Henry Rodgers		"	$\overline{17}$	1515. John Scholes		" · 5
1427. George Wallace		•• "	17	1516. Edward Albert Williams		" 5
1428. William West		"	17	1517. Turnwell de Pringle Turner		, 5
1429. Edward White	••	"	17	1518. Frank John Junker	• •	" 5
1430. James Dunsmuir		• •	17	1519. John McCormick	• •	" 5 " 5
1431. Frederick Hill		• • "	17 17	1520. Michael O'Halleran 1521. Joshua Harris	• •	" 5 " 5
1432. Jonas Nordloff 1433. Herbert Arthur Boddings		"	17	1521. Joshua Harris	• •	″ 5
1434. Edward Canavan		"	17	1523. John Martain Nicolas Frater	• • •	" 5
		"	17	1524. Michael Lanigan		" 5
1436. August Anton Lanppe		"	17	1525. Adolphus John Park		, 5
1437. Stephen W. sterman	• •	"	17	1526. Andrew Provan	• •	" 5
1438. James Brown	••	"	17	1527. Charles Tills	• •	, 5 , 5
1439. Alfred John Morrow		"	17 17	1528. Elward Hail Watson 1529. Edward Austin	• •	K
1440. Donald Anderson Whyte 1441. James Brown		•• "	17	1529. Edward Austin 1530. Percy Arthur Nield	• • •	" 5 " 5
1441. Edward Caspar		•• "	17	1531. George Plank	• • • • • • • • • • • • • • • • • • • •	″ 5
1443. John Jelly Halliday		"	17	1532. John Morgan		" 5
1444. Alexander Campbell Perk	ins	"	17	1533. John Luck	• •	" 5 1000
1445. John Alexander Wilson	• •	•• "	17	1504 Comma Alfa- 3 TZ: A11		1903. Mar 21
1446. Ewen McGregor		• • "	17	1534. George Alfred King Ansell	• •	Mar. 31 , 31
1447. Cornelius Stubbs 1448. John William Proctor		"	$\begin{array}{c} 17 \\ 17 \end{array}$	1535. Nicolai Jacob Nilsen 1536. Peter Rentoul	• • •	" 31 " 31
1448. John William Froctor 1449. Arthur Nathaniel Elliott		"	17	1537. Jacob Eckhoff Simmers	• •	″ 31
1450. Hector McKenzie		"	17	1538. John Vickerstaff		" 31
1451. Robert Archibald Crook		"	17	1539. George Parker		" 31
1452. John Fraser		Aug.	25	1540. Hugh Rooney	••	, 31
1453. Ralph Nield	••	•• "	25	1541. Samuel Edgar Fraser	••	" 31
1454. Sidney Smith	••	"	25	1542. Henry Hartley	• •	" 31
1455. William White 1456. John Walker		•• "	25 25	1543. John O'Donohue 1544. Norman Kenneth Sligo	• •	" 31 " 31
1456. John Walker 1457. Hugh Nelson		•• "	25	1544. Norman Kenneth Sigo 1545. Richard Williams		" 31 " 31
1458. Bernard Olof Anderson		•• "	25	1546. John Brokenshire		" 31
1459. Ewen Butler		•• "	25	1547. Robert Ross McDonald		" 31
1460. Alonzo Thomas Deer	••	•• "	25	1548. Arthur Bishop		, 31
1461. George Easterbrook, jun.		"	25	1549. Joseph Henry George Davis	• •	" 31
1462. William Kitto, sen.		•• "	25	1550. Joseph Barlow Copeland	• •	" 31 " 31
1463. Henry William Hales 1464. John Moodie		•• "	$\frac{25}{25}$	1551. William Langley Montague 1552. John Hume	• •	01
1464. John Moodie 1465. Albion Edgar Charles Ne	: -1-	"	25 25	1553. Alexander Johnston	• •	" 31 " 31
1466. John Augustine Roggiero		•• "	. 25	1554. John Robert Lindsay	• • •	" 31
1467. Henry James Bright	•	"	25	1555. Daniel James McIntosh	••	" 31
1468. Hugh Campbell		"	25	1556. John McAlpine	• •	" 31
1469. Alexander Low		• • "	25	1557. Richmond Frederick Wilson	••	" 31
1470. Dalton William Gambrill	••	"	25			

No. 12.—Return of Second-class Stationary-engine Drivers to whom Certificates of Service have been granted from 1st April, 1902, to 31st March, 1903.

No. and Name of Person.		Date	of Iss 1902		No. a	nd Name of Person.	,	Da	te of Is	
688. John Docherty	• •	1		24	739.	Archibald Steel			Aug.	25
689. Denis Kelly			"	24		Ole and a Delegan		. .	<i>"</i>	25
690. Henry Harold Batchelor			"	24		T7 . (T) TTT 14			″,	25
			"	24		TT 37 '		. .	,,	25
692. John Price			"	24		Tamanila Allamana dan Damana			Dec.	5
693. John Kelly				24		XXX:112 TO 33 3				5
694. David Scott Robertson		• •	"	24		Take Cikk-		• •	"	5
695. Samuel Manson		• •	"	24		41 1 70 1		• •	"	5
		• •	"	24		~		• •	*	5
696. John Crawley		• •	"	24	740	Ti Ctanabaidee		• •	"	o E
		• •	"	24	740.			٠.	*	5
698. Edward Tovey		• •	"			73 1 777 11		• •	"	5
		٠.		24				• •	"	. 5
700. Harry Child	• •	٠. ٠	July	17	751.			• •	"	5
701. James Flowers	• •	• •	"	17	752.	Ernest Percy Fowler	• •	• •	*	5
702. Thomas Huckstep 703. Albert Murtagh	• •	• •	"	17		Ernest Percy Fowler Christopher McDowell Frederick William Schmetz	••	• •	"	5
703. Albert Murtagh			"	17	754.				"	5
704. Frederick Abiathar McAlp	ine	• •	"	17		Frederick Harold Williams			"	5
		• •	"	17		George William Hunter		• •	"	5
706. Ernest Arthur Whittle			"	17			• •		"	5
707. Martin Joseph Johanson			,,	17	75 8.	James Guyton			#	5
708. Henry Lane			,,	17					"	5
			"	17	760.	Joseph Coulthard			"	5
			,,	17	761.	T3 T			,,	5
711. George Edward Ormond			,,	17		T			,,	5
712. Charles Edward Robins			,,	17		~ ~			,,	5
713. William Henry Robins			,,	17		T 1 377 1 T			,,	5
714. Walter Edwards			,,	17	765.				,,	5
715. Edward Evans			"	17		- · - · · ·			"	5
716. Wilfrid Henry Norris			"	17		* * • • • • • • • • • • • • • • • • • • •			,,	5
			"	17					",	5
				17	769					5
719. Charles James Jackson			"	17	770					5
720. John Maddock Kinaston			"	17		Alonzo Robert Kite Blinkho			"	5
720. John Shields		• •	"	17		Bertie Maitland			"	5
		• •	"	17		John Butler	••		"	5
722. Alexander Stevenson	• •		"	17	774	John Butler	••	• •	"	5
723. Sydney Terry		• •	"		775	Olof Magnus Joseph John Gyde		• •	"	5
724. Gustav Tetzlaff		• •	"	17	775.			• •	"	9 5
725. Richard Grose Varcoe		• •	"	17	770.	Thomas Littleboy	••	• •	1000	
726. John Andrews		• •	"	17	777	Time dentiete Title		,	1903	
727. James Hislop	• •	• •	"	17					March	
728. Albert Labes	• •	• •	"	17	778.			• •	"	31
729. Robert Marchbank	• •		"	17				• •	*	31
730. George Duthie Ritchie		• •	"	17					"	31
		A	Aug.	25			• •		"	31
732. Henry Ambrose Kitchen	• •		"	25					"	31
733. John Stuart		• •	"	25				٠.	"	31
734. John Alexander Thorburn			"	25			• •		"	31
735. John Baker Thornton			"	25	785.	Ambrose George Burt			,,	31
			,,	25					,,	31
			,,	25	787.	Julius Frederick Steenberg.			"	31
738. James Leiland Gardner			,,	25	788.	Benjamin Exell			"	31

No. 13.—Return of Restricted Second-class Engine-drivers to whom Certificates of Service have been granted from 1st April, 1902, to 31st March, 1903.

	· - · · - · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	•	
No. and Name of Person.	Date of Issue. 1902.	No. and Name of Person.		Date of Issue 1903.
1. Robert William Edgeworth	Dec. 5	3. Archibald Whiteford		March 31

No. 14.—Return of Extra First-class Stationary-engine Drivers to whom Certificates of Competency have been granted from 1st April, 1902, to 31st March, 1903.

00 00			<u>.</u>	,	
No. and Name of Person.		Date of Issue. 1902.	No. and Name of Person.		Date of Issue. 1902.
12. Joseph Hopkirk	••	May 24	16. Albert John Daniel 17. Robert Walker	• •	Dec. 5
13. William Earnshaw, jun. 14. William Hay	• •	Aug. 25	17. Robert Walker	••	" 5 1903.
15 Robert Rock		. 25	18. John Buchanan		March 31

No. 15.—Return of First-class Stationary-engine Drivers to whom Certificates of Competency have been granted from 1st April, 1902, to 31st March, 1903.

PETENCY have been	GRANTED	${f from}$	1st Ap	oril, 1902, to 31st March, 1903.		
No. and Name of Person.	Date of			nd Name of Person.	Date of	
	190		- 00=	T VIII MIZi	Dec	
162. Edward Looney, jun	Ма			James Wilson McKirdy John Meehan		ĸ
163. Francis Clark 164. Marston Colbeck Cuff	"	24 24		John Meehan Michael Moye	"	K
AOF TT T !	•• "	24		John Robertson Simpson	"	. 5
166. George Hardwick Matterson	• • "	24		William Herbert Thompson	"	. 5
167. Richard James Murphy	"	24		Robert Douglas Cox	"	. 5
168. William Smaill	"	24		Alfred Marshall	"	. 5
169. Edward Martin Edkins	"	24	244.	John James Thompson	• • • • •	. 5
170. Joseph Oliver	"	24		Harold Willoughby Holsted	• • • •	5 5
171. Stephen Tankersley	"	24		William Lawrence Riordan	"	5
172. Arthur Edward Spooner	• • "	24		Thomas Christian Frank James Joseph Mohan	"	E
173. John Philip Hewitt	• • "	$\frac{24}{24}$		Robert Colligan	•• "	ĸ
174. Rudolf Hindenach 175. George Henry Baird	•• "	24		Charles Edward Clark	"	ĸ
175. George Henry Baird 176. Robert William Barr	"	$\frac{24}{24}$		Charles William Robinson	"	. 5
177. Graham Duncan	"	24	252.	Ernest Schafer	"	. 5
178. Herbert Ellis Duncan	"	24	253.	Alexander Reid	"	. 5
179. Frank Finlay Keam	"	24		Adam William Maclarn	• • • • •	. 5
180. John Alexander Milne	•• "	24		Arthur James Parker	•• "	. 5 , 5
181. Edward George Silk	"	24		John George Snow	• • "	E
182. James Young Alexander	• • "	24		David Bruce Edward Allan Thomson	•• "	K
183. Walter Edwin Hughes	"	$\begin{array}{c} 24 \\ 24 \end{array}$		Edward Allan Thomson Peter Heywood Thomson	"	5
184. William Thwaites 185. Harry Etches Wilson	•• "	24		Charles Edgar Wetherilt	"	E
186. Edwin Smallman	"	24		Valentine Barrett	"	ĸ
187. David Leach, jun	•• "	24		Henry Michael Dixon	"	. 5
188. Harold William Mason		24		George Moon, jun	"	. 5
189. George Morrison	"	24		William Rose McKenzie	••• "	. 5
190. Francis William McCowan	"	24		Ernest Samuel Smart	"	. 5
191. Thomas Schofield	•• "	24		Collin Threlkeld	• • • "	ĸ
192. James Alexander Robertson	· · ·	24		John Wallace	"	×
193. Thomas Leahy Begg	Jul	y 17 17		Ernest Stoney Lewis Allan Henry Joseph Boardman	"	×
194. Malcolm Archibald MacGoun 195. James Gillies McIlraith	•• "	17		Charles Olof Marklund	"	
195. James Gillies McIlraith 196. Daniel Joseph Kelleher	"	17		John Manson	"	. 5
197. Edgar Nelson	"	17		Alfred Suter	"	
198. William John Sweetman		17	273.	Albert White	"	
199. Austin Frederick Warner	"	17			190	
200. John Peter Everard Wick	•• "	17		William Marslin	Ma	
201. William Burns Souter Lindsay	"	17		Robert Houliston	"	01
202. Thomas Hugh Latimer	"	17		David Dunwoodie Harry Ross Dix	•• "	91
203. Hugh McKay 204. Frederick Gould Bale Sanders	Au	g. 25 25		TO TO 11	"	91
204. Frederick Gould Bale Sanders 205. Victor Alexander	"	25		James William Smith	"	31
206. Alfred Edward Morgan	,	$\tilde{25}$		Alfred James Border	"	31
207. Leonard Douglas Seldon Dale	"	25		Albert Errington Exley	"	
208. Edward Duckworth	"	25		Harold Kemp	"	
209. Levi James	"	25		Edward Barry	"	. 31
210. David Richmond Fisher	• • • • • • • • • • • • • • • • • • • •	25		Samuel Pizzey	•• "	. 31
211. James William Hamilton	"	25		George Lindsay	"	91
212. John Chantrey Woodward	• • "	25 25		Michael Francis Enright Samuel Ernest Hubbard	• • "	91
213. Thomas Stevenson, jun	"	25 25		David Smith Jolly	"	91
214. Norvie Butler Brown 215. Norman Morris Russell	"	25 25		James Holmes Straw	"	0.1
216. John Frederick Doull	"	25		Harry Graham Lever	"	31
217. Henry Kenningham	"	25		Frank Leonard East	"	. 31
218. Preston Henry Hulton Harold \		25		John Alexander Stewart Aitken	"	31
219. Jeremiah Bernie	•• "	25		William Johnston	• • "	. 31
220. John Duncan	•• "	25		James Mathieson	• • "	31
221. Walter George Fraser	"	25		Malcolm James McDonald	"	31 31
222. Harry David McRobbie James	•• "	25 25		Robert Frederick Hinton Aldworth Vincent Philip Aylward	"	31
223. William Steele Kay 224. John Kelly	"	25 25		Stanley Howard Empson	"	31
224. John Kelly 225. Joel Barnett Moss	•• "	25		Cecil Houghton	"	31
226. Arthur Norman Wakefield	•• "	25		Harry Tillman	"	31
227. Thomas Walker	•• "	25		Reginald Seymour Williams	"	
228. Frederick Charles Davys	"	25		Frederick Wolff	"	
229. Thomas Matthew Snow	•• "	25		Walter Hugh Rudkin	• • "	31
230. George William Bassett Martin	·· "	25		John McArthur	,	31
231. John James Vincent	Dec			Samuel Dickson	• • "	31 31
232. Frank Jacobs	•• "	5 5		Philip George Marshall John McBean	"	31
233. Joseph Henry Cronin 234. Alexander Collie	•• "	5		Thomas Patrick Walshe	"	31
235. Emil Johannes Johansson	•• "	5		Allan Clyde Dickie	•• "	81
236. William Kane	•• "	5]	.	"	
	"		•			

No. 16.—Return of Second-class Stationary-engine Drivers to whom Certificates of Competency have been granted from 1st April, 1902, to 31st March, 1903.

					April, 1902, to bist March, 19			
No. and Name of Person.		Date of I		No.	and Name of Person.	Da	te of Is 190	
800 T.1 . 4114 T		1909 Mari		6FG	. Andrew Lawson		Aug.	
588. John Albert Irwin Pears		. May	24		T 3.T 11	••	_	25
589. Frank Augustus Pearce		• "	24			••	"	25
590. Samuel Bowman		. "	$\frac{24}{24}$			• •	"	25
591. Charles Robert Hyde		. "	24		. John Rickard, jun. . Alexander Charles Ross	• •	"	25
592. George Horatio Kent		. "				••	"	25
593. Thomas McLachlan	••	• "	24		. John Simpson	• •	n	$\frac{25}{25}$
594. Alexander Reid	••	. "	24		. William Thomas Taylor	• •	"	25
595. Walter Blackie		• "	24		Frank Charlton	• •	"	25 25
596. Thomas Falconer		. "	24		George Augustus Parrant	• •	"	25 25
597. Robert Hutton, jun.	• • •	. "	24		. George Ross	• •	"	
598. James McIntosh		. "	24		. Henry Edward Roberts	• •	"	25
599. Frederick Pearce		. "	24		. John Rainforth	• •	"	25
600. James Sawers		. "	24		. Hugh Joseph Sullivan	• •	"	25
601. William Shaw	••	. "	24		. Arnold Septimus Staples	• •	"	25
602. John Law Smail	• • •	. "	24		. William Ever Lange Langeson	• •	"	25
603. Henry Smith		. "	24		. Henry Blackmore	• •	"	25
604. John Alexander Stewart		. "	24		. Charles Elliott Lavers	• •	"	25
605. Thomas James Sherwood	d	. "	24		. Adolf Otto Christian Poulsen	• •	"	25
606. Robert Wright Todd		. "	24		. Alfred James Shaw	• •	"	25
607. Emil Haming Johanson		. "	24		. James Black	• •	"	25
608. William Lawson		. "	24		. Alfred Brook	• •	"	25
609. Valdemar Axel Victor W	∕inge .	. "	24		. Irwin Clearwater		"	25
610. James Haswell Wood		. "	24	698	. Archibald Dickson		"	25
611. Robert Barber		"	24		. Donald Henry		"	25
612. Stephen Beer		. "	24		Duncan Charles Patrick Macarthur	• •	"	25
613. James Breen		. "	24		. Donald McKercher McDonald	• •	. "	25
614. John Elder Gallie		"	24		. William Carson Patterson	• •	"	25
615. William Gunn		. "	24		. Joseph Frederick William Roggiero		"	25
616. Henry Francis Kitto		. "	24		. Neil Shaw		"	25
617. James Henderson Moir		"	24		. Charles Stevenson		"	25
618. Donald McLeod Munn		. , ,	24		. Charles McLaren Turnbull		"	25
619. James Arthur Shirley		. "	24		. Wallace Williamson		"	25
620. William Stewart		,	24	708	. Charles William Stuart		"	25
621. John Young Thomson		"	24	709	. Peter Andrew Thomas Webb		"	25
622. Peter Walker, jun.		. "	24	710	Robert William Moffitt		,,	25
623. Edmund Thomas Russel		. , ,,	24	711	. Albert Ernest Quertier		"	25
624. William Tom Cooke		. "	24	712	. Herbert Beynon Morris		"	25
625. Frank Harrison		. "	24		. Albert Edney Briggs		"	25
626. William Brand		. "	24		. William Alexander Nicholson		"	25
627. Albert Edward Gulliver		. "	24	715	. Walter Aldridge Gower		,,	25
628. Albert Charles Hill		. "	24		. Frederick John Carnie		,,	25
629. Timothy Jones		. "	24	717	. Charles Christopher Davis		"	25
630. Ernest Munns		. "	24		. Hugh Duffin		,,	25
631. Stuart Murphy		. "	24		. Edward Thorneycroft Frost		,,	25
632. William George Pearce		. "	24		. John Owen Gardner		,,	25
633. Charles Frederick Willia			24		. Charles Henry Kirk		,,	25
634. Percy Clifton Firth		. "	24		. Thomas Long		,,	25
635. Charles Angus Shaw		. "	24		. Frank Tufnell		,,	25
636. Robert Buyers Haswell		. , ,	24		. Franklin Henry Walker		,,	25
637. Francis McGowan			$\overline{24}$. Frank William Shultz		,,	25
638. George Arthur Tegg			$\overline{24}$. Robert Aitken Henderson		,,	25
639. Albert James Gallichan		July	17		. James Strang Paget		"	25
640. Richard Twort		. "	17		. Alfred Sutton		,,	25
641. Donald Duncan		. ,	17		. William Webb		. "	25
642. Henry Neale		. "	17		. August Richard William Boenicke		,,	25
643. Gabriel Knudsen			17		. Alexander Edwards		,,	25
644. William Martin Collins		. "	$\tilde{17}$		Norman Marsh Elder		"	25
645. John Stuart Dillon			17		. Thomas Ryan Jones	• •	,,	25
646. Stanley Richardson Jack		"	17		. William John McCulloch		,,	25
647. Alexander John Malcoln			17		. William McKegg		"	25
648. Henry Sargent		.,	17		. Andrew McKenzie		,,	25
649. James Daniel Discaciati		. "	17		. John Macpherson	• • •	,,	25
650. Hugh Gilmer		"	17		. James Scott	• • • • • • • • • • • • • • • • • • • •	″,	25
651. John Hansbury			17		. Robert Carr Scott	• • •	"	25
652. Joseph William Hansburg		. "	17		. John Thomas Weatherall		"	25
653. Robert Houliston, jun.	•		17		. John William Grant McIntyre		"	$\frac{25}{25}$
654. William Edwin Kennard	_		17		. William Bond	• •	"	25
655. James Ruthven		. "	17		. Simon Fraser, jun.	• • •	Dec.	5
656. Richard Williams		• "	17		. Llewellyn Lloyd Blake	• •	<i>1</i> 000.	5
657. Albert Edward Wick		. "	17		. William Henry Harkless Bunting			5
		"	17		. Andrew Melville	• •	"	5
658. Joseph Dudley Raine		• "	17		T 75.131 M 1	• •	"	5
659. James Pearce		"	17			• •	"	5
660. Alexander Leitch					. Edward Cranage Goodson	• •	"	5
661. James Pike Gage		• "	17		. Charles Lewis Luke	••	"	5 5
662. Robert Glen		. "	17		. Albert Ernest Meachen	••	"	
663. James Geaney		• "	17		, James Smith	• •	"	5
664. John William Horrack	• •	. "	17		. Cara Pacey Dugdale	•	"	5
665. Andrew Potts		• "	17		Fred. Harrison	? .	"	5
666. Edward James Butcher	••	. "	17		. Sidney Clayton	••	"	5
667. Michael Connors		. "	17		Samuel Alexander Lyttle	• •	"	5
668. John Cargan	••	"	17		Alexander Mackie	• •	"	5
669. Norman Mabin		"	17		Richard Andrews	• •	"	5
670. Stephen White		. "	17		Thomas Stevenson Drake	• •	"	5
671. Bernard Ambrose Roger	s	• "	17		. John Jarvie Gillies	• •	"	5
672. Edward Milton Dorée		. Aug.	25		. Ernest Henry Runnerstrum	• •	"	5
673. Aquila William Pearce		. "	25		James Arthur Adams	• •	" .	5
674. Henry Ernest Harvey		. "	25		. John Nichol Elliot	• •	"	5
675. Alister Harry Hunt		. "	25	763	. William McKay	•••	<i>w</i> .	5

No. 16.—RETURN of SECOND-CLASS STATIONARY-ENGINE DRIVERS—COMPETENCY—continued.

No.	and Name of Person.		D	ate of Is		No. ar	d Name of Person.		D٤	te of Is 1902.
76±.	William James Barclay			Dec.	5		George William Wallace			Dec.
	Joseph Rumble	• •	• •	"	5		Thomas Cook	• •	• •	"
		• •	• •	"	5 5		Joseph Mitchell, jun. William Alfred Body	• •	• •	"
	William Robert Robertson		• •	"	5	000.	William Allieu Dody	• •	• •	1903.
	John James Walker			"	5	859.	Robert Weir			Mar.
	James Blackwood Arnott			"	5		Archibald Arrol Stewart	••	٠.	"
		• •	• •	"	5		William Weaver	• •	• •	"
	William Holloway	• •	• •	"	5 5			• •	• •	"
	TTT: III T		• •	"	5		Thomas Edward Donovan	• •	• •	"
	John May		• •	"	5		Owen O'Neill	••	• • •	"
	- · · · · · · · · · · · · · · · · · · ·			"	5		TT T			<i>"</i>
	T. 1 TT			,,	5	867.	Thomas Farish			,,
	Robert Bruce			"	5		James Thomas Young			"
		• •		"	5				• •	"
		• •	• •	"	5		T 4.11	• •	• •	"
		••	• •	"	$\frac{5}{5}$		T. *******	• •	• •	"
	George Livingstone Horne Daniel McCorkindale		• •	"	5		T1 0 1	• •		"
	* · * · · · · · ·	••	• •	"	5		3.6 731		• • •	"
				"	5		TT ON 1.		• •	"
	T			,,	5	876.	Walter Clifford	• •		,,
			• •	"	5					"
	George William Ericson		• •	"	5			• •	••	"
	Thomas George Kitchingha	am	• •	"	5			• •	• •	"
	Axel Holsted Daniel Martin Byrne	• •	٠.	"	5 5		1 1 1 T	• •	• •	"
		••	• •	"	5 5			• •	• •	"
	~ ~.	••	• •	"	5		411 (T) 1 1	••		"
	Andrew John James Peeble			"	5		. () TT TT)	••		",
795.	Frederick Albert Winter			,,	5	885.	Albert Peter Lapoehn			,,
				"	5		Mark John Evans		• •	<i>"</i> ·
		• •	• •	"	5		Andrew Dickson Crawford		• •	"
		• •	• •	"	5 5			• •	• •	"
	John Patrick Burley James Croawell	••	• •	"	5 5		Cyril Hordern Macgeorge John Albert May	• •	• •	"
	T 1 (1 1 T) 1	• •		"	5		-,, , ,	• •	• •	"
302.	Thomas George Gear			"	5		T	• •		"
	Samuel Johnston			,,	5				٠.	,,
304.	James Patrick Leonard			"	5			• •		"
	Charles Edward Cain			"	5			• •	• •	"
306.	John Craighead	• •	• •	"	5		Donald Fraser Mackenzie		• •	"
		• •	• •	"	5 5			• •	• •	"
	T	• •	• •	"	5		7 1 17 1	• •	• •	" .
	Bernard Molineux Holt	••	• •	"	5		T 1 . T T 1	••	• •	"
	Thomas Richard Miller	• •		"	5		Charles Edward Chittender			",
	Henry Priddey			,,	5		111 (0 1			,,
		• • •		"	5			• •		"
	William Frederick Herbert		• •	"	5		777 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	• •	• •	"
	Frank Heinrich Stechman	n	• •	"	5	1		• •	• •	"
	Tom Wakefield Robert McFarlane	••	••	"	5 5		John Grant Edward Pakenham	• •	• •	"
	Ralph Beaufort	• •	• •	"	5		Robert Sloane	••	••	"
	William George Gunton	••		"	5		T. 1. TTT/111/ //D.			,,
	John Hinde	••		",	5	910.	a m. a ,			,,
321.	John Neill			,,	5	911.	Frederick William Charles	Nees		,,
		• •		"	5			• •		"
	James Ross	••	• •	"	5			••	• •	"
		••	• •	"	5		Harry Merson	• •	• •	. "
	George Moffitt William Thornton	••	• •	"	5 5		James Joseph Enright William Harrison	• •	• •	"
	Thomas Ayling	• •	• •	"	5 5		George Robert Charlton		• •	"
	~ · ~ · · ·	• •		"	5		C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	• •	• •	"
29.	Alexander Dove Pirie	••		,,	$\overset{\circ}{5}$		Robert Jackson Russell	• •		″
	Edward Ryde	••		"	5	920.	Carl Anderson	••	٠.	,,
31.	Gideon Scott			,,	5		Daniel Sutherland Smart	• •		,,
	Thomas Benjamin Smith		• •	"	5			• •	• •	"
	Andrew Aitken	••	• •	"	5		Parnell Cross	• •	• •	"
	Andrew Anderson	• •	• •	"	5 5			••	• •	"
	William Goldsmith Tyson Claude Ernest Burgess		• •	"	5 5		TTT:11! TT: TI	• •	••	"
	Peter Cussen	• •	• •	"	5			••	• •	"
	William Alexander Dripps		•	"	5				•	"
	James Fitzgerald	••		"	5		T TO 1 T	••		,,
40.	William Grant			"	5	930.	Hugh Johnson		٠.	"
	James Singleton Melvin	• •		"	5			• •	• •	"
	James Wright Murray	• •	• •	"	5		Alexander William Lorime		••	"
	William McCord	• •	••,	"	5		Daniel Joseph McCafferty			"
	Murdoch McDonald	••	• •	"	5 5			• •	• •	"
	Peter McLay Robert Patton	• •	• •	"	5 5		TT	• •	• •	"
	Benjamin Alfred Albert Pe	arce	••	*	5 5		TO 1 1 701 1 TYP 11	••	• •	,,
	FF 1 01 F		• •	"	5		TTT1111 . T.C. 11	• •	• •	"
	John Phillip Andrew Arths			"	5		Thomas Edward Geohegan			,,
850.	Thomas Joseph Cain	•		"	5		D : T 35 D	••		,,
851.	John Edward Douglas	••		,,	5	941.	John Bond		• •	,,
852.	Francis James Morrow	• • .	••	,,	5		Gustave Martinus Erickson		••	"
10 D	William McKay			"	5	948.	Samuel Patrick Chapman	• •	• •	"
	Duncan Donald Thorburn				5		James Tannock			

15 H.—15A.

No. 17.—RETURN of APPLICANTS Who PASSED their EXAMINATIONS AS MARINE ENGINEERS for the Year ending 31st March, 1903.

First-class Marine Engineer.—John William Bird, Albert Coad, Robert Charles Green, James Hambelton, W. Johnston, Thomas Alexander Pain.

Second-class Marine Engineer.—Charles Henry Gell, H. Hambelton, Frederick Lewis Harrison, William Jacobsen, Thomas Alexander Lawson, William Webb Luke, George Maxwell, James Powell, Kenneth Sinclair, William John Sutton.

Third-class Marine Engineer.—Ralph Cleave Alexander, George Grey Andrews, Valentine Raymett, George H. Baird, John Engineer Pall, Anthon Hammett, Cleave H. Baird, John Engineer Pall, Anthon H. Baird, John Engineer Pa

Barrett, George H. Baird, John Fairley Bell, Arthur Hassack Black, Harry Francis Blackie, Percy Edmond Brewer, Benjamin Henry Brown, Peter Nurse Brown, Malcolm Buckland, John Campbell, Lewis Cornelius Calnon, Henry Livingston Chandler, Leonard Douglas Seldon Dale, Walter William Daniel, Thomas Henry Davidson, Leslie Claude Davies, Frederick Charles Davys, Allan Clyde Dickie, Oscar Dillner, William Evans Dive, Harry Ross Dix, Henry Michael Dixon, Albert Errington Exley, Vincent Henry Fama, Charles Robert Furness, Robert Andrew Gibson, John Galbraith Hambleton, John George Hand, Leonard Bushe Harris, Cecil Houghton, Robert George Huggins, George Mathew Humphreys, James Hull, William Patterson Hunter, John Johnson, Thomas Richard Jones, Harold Kemp, William Kemp, Frank Robert Kilgour, Edward J. Leoney, John Manson, Harold William Manson, Francis William McCowan, John McDonald, William Bell McKenzie, William Rose McKenzie, Ernest Herbert Noy, Arthur James Parker, John Paterson, Henry Borton Perry, William Peterson, George Robert Pirie, Francis James Welster Pope, Walter Stanley Rentoul, John Coutts Reynolds, Victor Robertson, Peter Duncan Russell, Walter Coodage Products Main Silver, Lange Henry Hambles, Speake, Alexander Manner, Walter Goodman Sandes, Frederick Mair Silver, James Henry Havelock Speedy, Alexander Murray Swhan, William George Teixeira, Edward Allan Thomson, Peter Heywood Thompson, Harry Tillman, William Robert Waters, Arthur Rennie Watson, Harry Weenink, John Weir, Charles Edgar Wetherilt, Alfred Joseph Williams, Reginal Seymour Williams.

River Engineer.—Henry Alexander Butters, Thomas Joseph Cain, Herbert Christian, Joseph Cox, William Dawson, George Duthie, John Evans, Edward Thorneycroft Frost, George Archibald Green, Charles Hanningan, Thomas Harris Harrison, Christopher James Holford, George Mathew Humphreys, Arthur James, Thomas Long, Arthur Marychurch, Robert James McDonald, James McGlynn, John Neil, Percy Arthur Neild, Henry Nordstrum, Eugenio Charles Perano, Antonio Perez, Michael Rooney, James Patrick Ryan, Frederick James Tattley, George Thomas, John Wheeler, Surties John White.

Marine engine Driver.-William Allan, Athol Ernest Sercom Foster, George David Nairn Glover, Charles Robert Hyde, Edmund James Lonsdale, Arthur Marychurch, William McFarlane, Horace Pope, William Alfred Ragg, William Henry Scoones, John Mollison Stewart, Gustav Tetzlaff, Peter John Walsh.

First-class Engineer (Sea), Powered Vessels other than Steam.—Henry Cornwall Christian, Edward Looney, Andres Henrich Schmidt.

Second-class Engineer (Sea), Powered Vessels other than Steam.—Thomas Charles Barker, C. Barwell, Nathan Farrar Hall, Henry Ohio Ivey.

River-limits Engineer, Powered Vessels other than Steam.—Horace Chadwick, Frank Henderson, Archibald Weir.

No. 18.—RETURN of VESSELS SURVEYED during the Financial Year ended 31st March, 1903, with Particulars of Tonnage, &c.

-		Aeasure- ent.	se-power san-ships e Horse- f Ships	ted Horse- of Home- Steamers and eign Steamers			•
Name of Vessel.	Gross.	Register.	Nominal Horse-power of all Stean-ships and Brake Horse- power of Ships other than Steam.	Indicated power of trade Steam of Foreign only.	Description of Machinery.	Screw.	Paddle.
Admiral	121	82	28		Compound S. condensing	Single	
Advance (Auckland)			8		High pressure	"	
*Ahuriri (2)	85	31	17		Compound S. condensing	,,	
Akaroa	76	43	28	144	,,	,	
Albany			8	10	High pressure	,,	
Alert (Thames)	٠٠.		6	1	Condensing	"	
Alert (Auckland)	•••		$1\frac{1}{2}$!	High pressure	,,	• •
Alexandra	104	73	30	80	,, ,,		Paddle.
Anna	28	21	10 B.H.P.	••	Oil-engine	Single	••
Antrim	60	35	17	• • • • •	Condensing	,,	••
Aorere	72	49	16 1	66.8	Compound S. condensing	,,	
Aotea (Auckland)	111	89	15 B.H.P.	••	Oil-engine	,,	••
Aotea (Kaipara)	263	157	33		Compound S. condensing		• •
Aparima	5,704	3,684	284	2,702	Triple compound	Twin	
Awarua (Blenheim)			3	••	High pressure	Single	
Awarua (Auckland)	159	100	32	207	Condensing	,	
Balmain	604	377	85	436	Compound S. condensing	"	
Beatrice	•••	8	10	••		,,	• •
Bella	19	12	12		High pressure	,,	••
Ben Lomond	46	33	15		Compound S. condensing	,,	
Birkenhead	87	55	20	••	High pressure		Paddle.
Blanche (Auckland)	26	17	9	••	,,	Single	• •
Britannia	196	108	40	••		,	
Brothers	68	55	49 B.H.P.	• • •	Oil-engine	_ ". ••	• •
Canterbury	٠.		24		High pressure	Twin	••

No. 18.—RETURN of VESSELS SURVEYED, &c.—continued.

	Tong M		15 8 d .	re de e			
	Tons M	easure.	Pow nebij Hors Shij	Ors Hom rs ar			
Name of Vossel.		<u> </u>	lorse Stear ke of of	of H of same n Ste	Description of Machinery.	Serew.	Paddle.
Name of Vesser.	ró	ster.	Bra Bra Bra	a te r Ste			
	Gross.	Register	Nominal Horse-power of all Steamships and Brake Horse- power of Ships other than Steam.	Indicated Horse- power of Home- trade Steamers and of Foreign Steamers only.		-	
		<u> </u>	Z	H T T T T T T T T T T T T T T T T T T T		<u> </u>	
Charles Edward (2)	245 103	145 70	48 24	213 61	Compound S. condensing	Single	
Chelmsford Clansman	591	336	90	527	"	"	
Clara	210	 91	$\begin{array}{c} 2\frac{1}{2} \\ 54 \end{array}$	400	High pressure Triple expansion	,	
Claymore Clematis		5	8	400	Compound S. condensing	,,	
Clyde	130	• • •	40		<i>"</i>	Single	Stern wheel.
Comet Corinna (2)	1,279	820	$\begin{array}{c} 2\frac{1}{2} \\ 141 \end{array}$	898	High pressure Compound S. condensing	" ··	
Coromandel	99	67	25		"	"	••
Countess Countess of Ranfurly	198	84 153	28 90 B.H.P.	•••	Oil-engine	,	
Cygnet	124	66	43	170	Compound S. condensing	,	• •
Daphne (Hokitika) Despatch (Bluff)	35	24	$20^{\frac{3}{4}}$	••	High pressure Compound S. condensing	,,	
Dingadee	640	393	80	439		Twin	• •
Dot (Auckland) Duchess	308	62	$81^{\frac{1}{2}}$		High pressure	Single	
Duco	130	26	60			"	
Durham Eagle	99 219	53 138	$\begin{array}{c} 24 \\ 70 \end{array}$	••	Compound S. condensing	<i>"</i> · ·	Paddle.
Edina		4	6	••	High pressure	Single	
Effort Eliza	21	13	$\frac{12}{3}$	••	,	Single	Paddle.
Elsie	20	15	10	• •	,		::
Emma Sims	73	61	32 B.H.P. 5		Oil-engine Compound S. condensing	Twin Single	, .
Endon Energy	58	15	16	• • •	Compound 5. condensing	" ···	
Erin	126	 98	4	100	High pressure	,	••
Erskine Express	53	36	35 25	120 100	Compound S. condensing	<i>"</i>	
Fairy (Napier)	45	32	15	50	High pressure	"	••
Falcon Fanny	90	55	6 30	$\begin{array}{c} 12 \\ 160 \end{array}$	Compound S. condensing	,	
Fingal	34	22	$^{9\frac{1}{2}}$	48	Compound S. condensing	Twin	••
Gairloch Gannett	373 10	211	$\begin{array}{c} 85 \\ 12 \end{array}$	561	High pressure	Twin Single	••
Gertie	262	100	59	413	Triple expansion	Twin	••
Gipsy Glenelg	288	156	6 B.H.P. 75	331	Oil-engine Compound S. condensing	Single	•••
Goldfinch	••		10		•	,	ļ
Gosford Gretchen	83	56	30 1 1	• • •	Compound High pressure	"	::
Greyhound	107	83	50 B.H.P.		Oil-engine	,,	••
Haupiri Hauturu	700	475	․ 88 3)	527 14	Compound S. condensing High pressure	,,	• • • • • • • • • • • • • • • • • • • •
Hawea	1,757	1,114	104	857	Triple expansion	,,	••
Heathcote Herald	167 573	94 370	35 85	459	Compound S. condensing	<i>"</i>	
Hercules (Auckland)	58	51	36 B.H.P.		Oil-engine	,	••
Himitangi Hinemoa (C.G.S.)	323 542	149 282	45 150	248 620	Triple expansion Compound S. condensing	"	
Huia (Auckland)	204	196	6 B.H.P.		Oil-engine	,	
Huia (Wellington)	133	69	23 10 B.H.P.	160 	Compound S. condensing Oil-engine	" ··	
Ida	18	12	10		High pressure	,	
Invercargill Ithaca	223	123 7	50 9		Compound S. condensing	,	••
Jane Douglas (2)	95	74	22	70	" "	,	::
Janet Nicoll	780 129	496 88	90 28	471	. "	,	••
J.D.O John Anderson	52	36	20	••	"		
John Townley	 175	85 99	40 40	180 212	"	Twin Single	••
Kahu Kaipara	175	99	4		"	"	•••
Kanieri	202	115	20 32	160	"	<i>"</i> ···	••
Kapanui Kapiti	110 208	75 80	32 35	239	" "	,,	
Kapui	58 76	30 51	30	••	High pressure	,	
Karoro Kate	76	51	17 5	::	Compound High pressure	,	• •
Katikati	37	26	- 9		Compound S. condensing	,,	••
Kauri Kawau	99	53	$\begin{smallmatrix} 1\\20\end{smallmatrix}$	•••	High pressure Compound S. condensing	,,	• • • • • • • • • • • • • • • • • • • •
Kennedy (2)	188	124	43	188	,,	Twin	
Kilmorey Kini	1,122	702	$\frac{1\frac{1}{2}}{130}$	680	High pressure	Single	::
Kiripaka	105	75	24	100	Compound S. condensing		••
Kopu Koputai	153	18 5	19 120	441	High pressure	Single	Paddle.
Kotahi	12	9	18 B.H.P.		Oil-engine	,,	
	1	1		!	l	l	<u> </u>

No. 18.—RETURN of VESSELS SURVEYED, &c.-continued.

			leasure- ent.	rse-powership amship a Horse Ships	Horse Homeners an Steamer			
Name of V essel.		Gross.	Register.	Noninal Horse-power of all Steamships and Brake Horse-power of Ships other than Steam.	Indicated Horse- power of Home- trade Steamers and of Foreign Steamers only.	Description of Machinery.	Screw.	Paddle
Cotiti		58 1,054	42 662	14 112	613	Compound S. condensing Triple expansion	Single	••
Luaka		45 55	33	90 B.H.P.		Oil-engine	"	••
ady Barkly (2)	• • •		39	20 5	90	Compound S. condensing High pressure	,,	•••
ily			• • •	11		,	,	
ittle George	• •	• •	4	4 1 1	• • •	,,	"	•••
ittle Jack yttelton (tug) (2)		190	39	80	• • •	Compound S. condensing	1	Paddle.
Iahuta		15	11 45	13 B.H.P. 13		Oil-engine	Single	••
[akarora (2) [ana		99	77	25	141	High pressure Compound S. condensing	"	
anakau		65	45	20	80	_ "	,	••
lanapouri lanaroa		$^{2,060}_{122}$	1,288 77	$\begin{array}{c} 220 \\ 24 \end{array}$	1,600 178	,,	"	::
(anchester (2)			366	160		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	
angaiti	••	107	 75	$\begin{array}{c} 6 \\ 25 \end{array}$	••	High pressure	,	Stern whe
(anuwai (aori (Auckland)		25	17	8		" ·· ··	Single	
aori (Dunedin)		173	118	60	150	Compound S. condensing	,	
apourika araroa		$\frac{1,208}{2,598}$	718 1,380	130 5 30	$\frac{1,247}{3,537}$	Triple expansion		• • • • • • • • • • • • • • • • • • • •
ascotte	[12	High pressure	, , ,	
atuku		••	••	4 3	••	,	,	
ay ay Howard		64	 55		20	Quadruple surface	,,	
eremere				$\frac{1\frac{1}{2}}{2}$		Compound S. condensing	,	••
innie Casey oa	• •	74 188	48 95	20 33	153	,,	,,	
oerangi		15	14	27½ B.H.P.		Oil-engine	,	
okau	• •	$\frac{162}{3,502}$	$98 \\ 2,154$	$\begin{array}{c} 27 \\ 255 \end{array}$	160 3,501	Compound S. condensing Triple expansion	Single	•••
okoia onowai	••	3,433	2,137	290	2,551	Triple expansion	" ·	
oss Rose		100		6	••	High pressure	,	Doddle
ountaineer (2)	• •	$\frac{109}{2,026}$	$\frac{66}{1,247}$	50 275	1,925	Compound S. condensing Triple expansion	Twin	Paddle.
uritai		224	133	45	210	·Compound S. condensing	Single	••
uritai (Horeke) ambucca	• •	130	74	8 24	120	High-pressure Compound S. condensing	,,	• •
amoucca		70	48	30	62	Compound 5, condensing	,,	•••
arcissus				2		High pressure	,	••
aurni autilus	• •	47 41	28 29	12 18	30 65	Compound S. condensing	,,	• •
ene (2)		6	4	2		Compound	,	
gapuhi	• •	691 80	299 54	160 17	1,340 69	Triple expansion Compound S. condensing	Twin Single	••
gunguru ile		43	21	20		Compound	" ···	
oko	••	19	15	9	400	High-pressure	Twin	••
o. 121 hinemuri	• • •	$657 \\ 114$	394 73	100 26	488 130	Compound S. condensing	Twin	::
huru			20	14		Quadruple expansion	,,	••
mapere nslow	• •	601 23	352 16	80 14	505	Compound S. condensing	Single	••
nsiow nawa (2)		110	64	18	73	, , , , , , , , , , , , , , , , , , ,	Single	
eti	• •	219	117	. 50	162	"	,,	• •
rewa sprey	••	59 219	37 138	17 70		"		Paddle.
valau		1,299	766	103	673	Quadruple expansion	Single	••
aeroa aiaka	••	91 14	46 10	$\begin{array}{c} 15 \\ 9 \end{array}$	67	Compound S. condensing High pressure	"	• • •
nia (2)		40	27	11	45	Compound S. condensing	"	• •
reora		650	355	71 4	428	Triple expansion High pressure	,	• •
irera elorus	[25	18	12		,,	,,	
nguin	• •	836	517	180 82	711 544	Compound S. condensing	,,	
etone	• • •	708 44	388 18	82 11	544 140	Triple expansion Compound S. condensing	"	
nœnix		8	6	5		High pressure	,,	••
raki ucky	••	 81	10 29	4 40	262	Compound S. condensing	,,	• • •
herua		1,174	749	128	686	Triple expansion	,	••
esto	••	1,444	917	3 110	622	High pressure Quadruple expansion	,,	••
ıkaki ıeen of South	•••	197	121	40	220	Compound S. condensing	"	••
akanoa		2,246	1,393	200	843	Triple expansion	,,	
esult (Napier) esult (Tauranga)		28	18	10 4	··	Compound S. condensing High pressure	,,	• • •
ita_`		40	22	11	55	Compound S. condensing	,	••
ob Roy osamond	••	95 721	34 462	16 90	 411	" 	,,	• •
osamond		••		2	2	High pressure	,,	• • •
se Casey		132	9 9	35	••	"	,,	••

No. 18.—RETURN of VESSELS SURVEYED, &c.—continued.

	Tons M me		amshipe Horse Shipe Steam.	a ted Horse- r of Home- Steamers and reign Steamers			
Name of Vessel.	Gross.	Register.	Nominal Horse power of all Steamships and Brake Horse power of Ships other than Steam.	Indicated power of trade Steam of Foreign S only.	Description of Machinery.	Serew.	Paddle
Rotokino Rotomahana (Auckland)		1,263 139	135 50	929 265	Quadruple expansion Compound S. condensing	Single	
Rotomahana (Dunedin) Rotoiti	1,763	915 630	450 104	2,465	Trinle arrangion	 Duite	• • •
Rotoiti Ruru	1,159	11	104	1,127	Triple expansion Compound	Twin Single	
Bavaii	55	31	16		Compound S. condensing	,,	
seagull Sonoma	• • •	••	6 13	•••	High pressure	,	
outhern Cross (Lond'n)		205	20	116	Compound S. condensing	"	::
pray	000	150	8	5	High pressure	"	
stella stormbird (2)	268 217	157 137	90 40	183 226	Compound S. condensing	<i>"</i> ···	• • •
lumner	167	94	35		<i>"</i>	<i>"</i> ···	
wan 'ainui	. 24 80	16 46	8 20	••	High programs	"	Paddle.
akapuna (Auckland)	77	57	25	•••	High pressure		Paddie.
akapuna (Dunedin)	930	472	265	1,221	Compound S. condensing	Single	· "··
Talune Tangaroa	2,000 189	1,370	$\frac{255}{70}$	1,842	Triple expansion Compound S. condensing	Twin	
angihua	31	20	15	90	Compound S. condensing	Single	
aniwha (Auckland)		191	40 16	254		Twin	
'aniwha (Timaru) 'arakihi	• • •	16	16 4	10	High pressure	Single	
arawera	2,003	1,268	250	1,543	Compound S. condensing	,	
'arewai 'asman	10 178	7 87	6 38	240	High pressure	Twin	
aviuni	1,465	910	38 135	1,025	Compound S. condensing Quadruple expansion	Twin Single	
awera (Gisborne)	52	44	40 B.H.P.		Oil engine	" .,	
awera (Lake Te Anau) e Anau	1,652	1,028	$\begin{array}{c} 14 \\ 250 \end{array}$	1,249	Compound S. condensing	,	
'e Kapu	92	50	25	113	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	::
erranora	349	199	94	232	,,	• • •	Paddle.
heodore heresa Ward	195	35 9	25 95	399	Triple expansion	Single	::
histle	96	77	90 B.H.P.		Oil engine	"	::
homas King	98	70	16	904	High pressure	"	
itiroa	479	211	78 3	324	Compound S. condensing High pressure	Twin Single	
oroa	388	174	91	482	Triple expansion	_ "	
uariki ui	• • •	•••	8 B.H.P. 6 1		Oil-engine	Twin	
uiwiki		2	6		High pressure	Single	::
una (Gisborne)		::0	14	• • •	Compound S. condensing	Twin	
lutanekai (C.G.S.) Ipolu	$811 \\ 1,140$	412 692	205 120	1,145 733	Triple expansion Quadruple expansion	Single	•••
lictoria	147	92	40	200	Compound S. condensing		Paddle.
ivid	21	6	13	••	High pressure	Single	
Vaabi Vaihi	92	63	5 20	172	Oil engine Compound S. condensing	"	::
Vaihora (2)	2,003	1,269	250	1,509	,,	<i>"</i>	
Vaikare Vaimana	3,071 151	1,901	229 18	2,352	Triple expansion Quadruple expansion	maria.	•••
Vaimana Vaimarie	245	159	48	206	Compound S. condensing	Twin	::
Vainui	661	411	95	626	, ,	Single	
Vaione Vaiotahi	57 1 278	43 167	40 56	399	Triple expansion Compound S. condensing	Twin	•••
Vaipa			11/2		High pressure	Single	
Vaipori	1,919	1,229	180	862	Triple expansion	,,	
Vairere (Wanganui) Vairoa (Auckland)	99	27 63	80 24	240	High pressure	Single	Paddle.
Vairoa (Nelson)	70	47	20	50	"	,,	::
Vaitangi (Auckland) Vaitara	171	34	62 12	368	High pressure	Twin	
Veiwera (Dunedin)			7	• •		Single	::
Vaiwera (Lyttelton)	• •		8	• •	Compound S. condensing	,,	
Vaiwiri (Auckland) Vakatere	441	157	$\frac{7\frac{3}{4}}{140}$	698-	"	"	Paddle.
Vakatu	157	95	23	156		Single	
Vanaka (2) Varrimoo	$\frac{2,421}{3,529}$	1,572 $2,076$	280 490	1,241	Triple expansion	"	•••
Varrimoo Vave	3,529	2,076	1 1	3,701	High pressure	"	::
Vaverley	156	93	25	108	Compound S. condensing	Twin	
Veka (Napier) (2) Veka (Auckland)	$\begin{array}{c} 89 \\ 127 \end{array}$	52 86	20 27	75	"	Single	
Vellington (Auckland)	382	279	80	514	"	Single	• •
Vestland (2)		35	60	297	Mumba and "	1	Paddle.
Vhangape (2) Vhati	2,931	1,900	280 1 3	1,052	Triple expansion	Single	::
Vinona		19	8		Compound S. condensing	_ "	
ď h o		12	24 B.H.P.		Oil-engine	Twin	• • •

No. 19.—Return of Vessels surveyed for Seaworthiness, &c., from 1st April, 1902, to 31st March, 1903.

Dates of Survey.	Name of	Vessel.		Where Surve	eyed.	Nature of Casualty.
1902.						
Nov. 3, 4	Aparima			Auckland		Damage by fire.
Dec. 12	Athenic			Wellington		Took the ground in Wellington Harbour.
Aug. 11, 13		• •		Wellington		Damage to boiler.
July 2	Corinna	• •	• •	Dunedin		Damage to hull through striking wharf pile
Aug. 19, 27	Dingadee		• •	Wellington		Mishap to boiler.
July 8	Herald			Invercargill		Collision with "Monowai."
July 15, 16 1903.	Invercargill	••	••	Invercargill	• •	Stranded going up New River.
Feb. 26	Kapanui	• •	٠.	Auckland		Broke tail-shaft.
July 8	Monowai			Invercargill		Collision with "Herald."
Aug. 20	Montrose			Auckland		Break-down in air-pump.
Oct. 9	Otago			Christchurch		Survey for seaworthiness.
Aug. 24 to 30	Pareora	••	• •	Wellington		Special survey for Lloyd's.
1903. Feb. 27 Mar. 2 1902.	Penguin			Wellington and	Nelson	Grounded off Waihi Point.
1902. Oct. 3 1903.	Rimutaka			Wellington		Survey as to seaworthiness.
Mar. 6, 7	Samuel Plin	ısoll	••	Dunedin	• •	Survey to allow vessel to be towed to Australia after being dismasted and otherwise injured
Aug. 21 to 23 Dec. 17, 18	Tarawera	• •	••	Napier	.,	Grounded at Napier.
1903. Jan. 5, 12, 19	Tavinni	••	••	Wellington		Tail-shaft broken.
7 00 '	Tutanekai			Wellington		Special survey for Lloyd's.
Jan. 23 Mar. 4	Waikare	• •	• •	Dunedin		Grounded at Port Chalmers.
1902.	Walkale	••	• •	Duneum	• •	Grounded at 1 ort Chaimers.
July 3. 4	Waimate			Wellington		Grounded at Rangitoto Channel.
Aug. 12	Waiwera	• •	• •	Wellington		Branch of main steam-pipe tested.
July 9	Wakatu	••	• • • • • • • • • • • • • • • • • • • •	Wellington		Grazed on something rounding Port Gibson.
1903.		• •			••	The state of the s
Feb. 2 1902.	Wakatu	••	• •	Lyttelton		Grounded off Kaikoura.
July 10	Westralia			Wellington		Collision with Wellington Wharf.

The fees for survey for seaworthiness amount to £74 8s.

No. 20. — RETURN showing the REVENUE RECEIVED from the Inspection of Machinery Department (including the Examination of Engineers and Engine-drivers, and the Amount earned by the Survey of Steamers) during the Financial Year ended 31st March, 1903.

	£	8,	d.
	 5,329	5	0
Fees for survey of steamers for the year	 1,588	10	0
Fees for the survey of steamers for seaworthiness	 74	8	0
Received for examinations of marine engineers	 177	0	0
Passived for contificator for land angine drivers	 631	0	6
Recovered law costs	 3	11	8
	£7,803	15	2

RETURN showing the Ordinary Expenditure of the Inspection of Machinery Department (including Examination of Engineers and Engine-drivers and Survey of Steamers) during the Financial Year ended 31st March, 1903.

							£	s.	d.
Salaries							4,562	7	3
Travelling-expe	nses	• • •					2,061	2	1
Rent, cleaning	offices,	and fuel					379	4	6
Contingencies	•••	•••	• • •	•••	• • •	• • •	896	2	6
						£	7,898	16	4

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