

also a portion of the wooden rail. A new set of piston-rings was fitted to the dynamo-engine and the rods relined. A temperature balance circulator was fitted in both main boilers. All the main and auxiliary steam-pipes were tested to 180 lb. hydraulic pressure. 35 ft. of shoeing on keel was renewed. The main boiler uptake was repaired, and the windlass was overhauled. New neck and gland bushes for both h.p. and m.p. tail-rods were fitted.

*S.s. "Janie Seddon."*—In the main boiler twelve rivets were renewed in the bottom of the starboard combustion-chamber, and both chambers were recaulked where necessary. Two new rivets were put in bottom of front circumferential seam, and a new bottom manhole-door was fitted. A temperature balance circulator was fitted to boiler.

*S.s. "Mountaineer."*—Several butt joints in the keel-plating were caulked, the bottom rudder-pintle was renewed, and the sponson beam on port side was straightened and strengthened. All the joints in the paddle-wheel arms were relined with white metal. Eight new screwed stays were fitted in the firebox of the boiler, and the engines were thoroughly overhauled.

#### ADDITIONAL STEAMERS AND AUXILIARY-POWERED VESSELS SURVEYED FOR THE FIRST TIME.

During the past year 275 new steamships and vessels fitted with oil-engines as a motive power have been surveyed for the first time. The names of these vessels are as follows: "Advance," "Advance II," "Aerial," "Ailoma," "Airship," "Albatross," "Alert," "Alexandra," "Alice," "All Black No. 1," "All Black No. 2," "Annie," "Aorangi," "Arapawa," "Arawa" (Auckland), "Arawa" (Port Underwood), "Ariadne," "Aroha," "Arrino," "Aru-mai," "Atlas," "Awarua," "Balder," "Beatrice," "Beldame," "Benares," "Bittern," "Bletsoe," "Brooklyn," "Centaur," "Clutha,"\* "Countess," "Dairymaid," "Daphne," "Dart," "Defender," "Dolphin," "Doris" (Napier), "Doris" (Picton), "Doris" (Russell), "Dorrigo,"\* "Dove" (Picton), "Dove" (Pelorus Sound), "Dovey," "Dreadnought" (Akaroa), "Dreadnought" (Port Underwood), "Duchess," "Earl," "Echo," "Eclipse," "Eileen," "Elsie" (Auckland), "Elsie" (Nelson), "Elswick," "Eureka," "Fairy," "Fiona," "Firefly," "Flora" (Akaroa), "Flora" (Bluff), "Foam," "Gipsy," "Gladstone," "Glen-lee," "Gordon,"\* "Greyhound" (Havelock), "Greyhound" (Port Underwood), "Hauti,"\* "Hawera,"\* "Heather," "Hilary," "Hina," "Hinemoa" (Hokianga), "Hinemoa" (Rotorua), "Hokimai," "Holliday," "Houmoana," "Houto," "Huia," "Ilex," "Independence," "Iris" (Thames), "Iris" (Waikato), "Isa" (Picton), "Isa" (Whangarei), "Jersey Lily," "John,"\* "John Kennedy," "Kaiapoi," "Kanieri," "Kanna,"\* "Karaka,"\* "Kawa," "Kea," "Kia Ora," "Kingfisher," "King Hami," "Kiwi," "Kokiri" (Opua), "Kokiri" (Russell), "Kopapu," "Koroi," "Koutu," "Kura," "Kyra," "La Mascotte" (Picton), "La Mascotte" (Rotorua), "Larola" (Picton), "Larola" (Wanganui), "Lauderdale,"\* "Lupe," "Mahinapua," "Majestic" (Hokianga), "Majestic" (Mercer), "Makere," "Makura," "Mana" (Nelson), "Mana" (Riverton), "Manaia," "Maori" (Havelock), "Maori" (Picton), "Maori" (Riverton), "Mapu II," "Maranui," "Mararoa," "Marawa," "Marikena," "Maritana," "Matakokiri," "Matareka," "Matariki" (Admiralty Bay), "Matariki" (Tuakau), "Maude," "Mavis," "May" (Rawene), "May" (Wanganui), "Melville," "Mere-Aua," "Merlin," "Mermaid" (Admiralty Bay), "Mermaid" (Tuakau), "Merry Duchess," "Meteor," "Midlothian," "Mira," "Mizpah," "Moana," "Moata," "Mokoia," "Mona," "Monarch," "Mongonui," "Muritai," "Myrtle," "Namu," "Nautilus" (Bluff), "Nautilus" (Hokianga), "Nautilus" (Onehunga), "Nelly," "Ngaru" (Huntly), "Ngaru" (Onehunga), "Ngaru" (Thames), "Nicola," "Nimrod" (Auckland), "Nimrod" (Rotorua), "Nopera," "Norah," "Nydia," "Nymph," "O.K.," "Oleo," "Olive Branch," "Opouri,"\* "Pakeha," "Palatine," "Pararua," "Parua," "Pauline," "Pearl," "Petrel," "Phyllis" (Hokitika), "Phyllis" (Russell), "Psyche," "Ralaco," "Rangi," "Rangiora," "Rangiriri," "Ratanui," "Rawene," "Redwing," "Regal," "Reliance," "Rene," "Roamer," "Rongotai," "Rose," "Rotoehu," "Roto-ngaru," "Rotorua No. 1," "Ruahine," "Ruru," "Samson," "Saxon," "Scout," "Sea Bird," "Seagull," "Seamen," "Seawolf," "Secret," "Selwyn," "Settler," "Sonoma" (Hokianga), "Sonoma" (Rotorua), "Sparrowhawk," "Spray," "Stella" (Hokianga), "Stella" (Whangarei), "Sterling," "St. George," "Stromboli," "Success," "Sunbeam," "Sybil," "Sylph," "Sylvia," "Tainui," "Tanfield Lea," "Tauranganui," "Te Akau," "Te Anau," "Te Aumiti," "Te Kooti," "Te Kura," "Te Rangi," "Te Rhino," "Te Wake," "Te Wharu," "Thelma," "The Peregrine,"\* "Thistle," "Tikitere," "Tio," "Tiro," "Toiler," "Tui" (Nelson), "Tui" (Picton), "Tutanekai," "Undine," "Utu," "Victoria," "Victory" (Mercer), "Victory" (Rotorua), "Viking," "Vixen," "Waihou," "Wai-iti" (Akaroa), "Wai-iti" (Wanganui), "Waikare," "Waikato," "Waikuku," "Waima," "Waimarama," "Wainui" (Akaroa), "Wainui" (Picton), "Waiomo," "Waiora," "Waireka," "Wairoa," "Waitana," "Waituna," "Whaka," "Whanui," "Winifred," "Zealandia," "Zephyr."

#### SAILING-SHIPS.

A large amount of time has been spent by the Surveyors of Ships on sailing-vessels during the year. By the Shipping and Seamen Amendment Act, 1909, all sailing-vessels over 5 tons register and employed in the home trade have now to be surveyed. Altogether 104 sailing-vessels were surveyed and inspected during the year. A large number were found to be very defective in the hull, and had in some cases to undergo considerable overhaul. The whole of the repairs and renewals were carefully supervised and afterwards passed by the Surveyors before the vessels were permitted to run.

Return No. 18 gives the names of these vessels, their gross and registered tonnage measurements, class of vessel, and the number of times surveyed.

The total fees for the survey of these sailing-vessels amounted to £329 10s.

\* Steamers.