

## ABSTRAK

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*Analisa Sistem Pengereman Pada Lokomotif Tipe CC 203, Laporan Tugas Akhir, Program Studi Teknik Mesin D3, Jurusan Teknik Mesin, Lokomotif* adalah bagian dari rangkaian kereta api di mana terdapat mesin untuk menggerakkan kereta api. Biasanya lokomotif terletak paling depan dari rangkaian kereta api. Operator dari lokomotif disebut masinis. Masinis menjalankan kereta api berdasarkan perintah dari pusat pengendali perjalanan kereta api melalui sinyal yang terletak di pinggir jalur rel. Lokomotif di Indonesia terbagi menjadi 4. Yaitu lokomotif uap, lokomotif diesel hidrolis, lokomotif diesel elektrik dan lokomotif listrik. Lokomotif diesel pertama di Indonesia adalah lokomotif diesel elektrik bertipe CC 200. Lokomotif CC200 dengan nomor model Alco-GE UM 106T adalah lokomotif diesel elektrik berkabin ganda pertama di Indonesia, buatan pabrik General Electric tahun 1953. Seiring waktu berjalan, lokomotif diesel semakin banyak dan bervariasi. Pada tahun 1977, lokomotif diesel elektrik terbaharukan didatangkan dari pabrik General Electric Amerika ke Indonesia dengan tipe CC 201 hingga tahun 1992. Disusul oleh lokomotif CC 203 pada tahun 1995 hingga tahun 2002, dan pada tahun 2003 Indonesia berhasil membuat Lokomotif diesel elektrik terbaharukan pertama yang bekerjasama dengan General Electric Transportation bertipe CC 204 yang terbagi 2 batch, hingga pada tahun 2013, lokomotif terbaru dengan memiliki 2 cabin dan dengan mesin yang lebih canggih telah hadir di Indonesia dengan tipe CC 206 sebanyak 150 unit. Dan dikirim dalam 2 batch.

Dengan ini, Indonesia telah memiliki 139 unit untuk CC 201, 41 unit untuk CC 203, CC 204 sebanyak 37 unit dan lokomotif terbaru bertipe CC 206 sebanyak 150 unit di Indonesia. Dan hingga saat ini, semua lokomotif masih sanggup berjalan tanpa ada kerusakan yang berarti, karena setiap bulan lokomotif selalu menjalani setiap perawatan berkala setiap 1 bulan.

Kata Kunci : Lokomotif

## ABSTRACT

Analysis of Braking Systems in Locomotive Type CC 203, Final Project Report, D3 Mechanical Engineering Study Program, Mechanical Engineering Department, Locomotive is part of a series of trains where there are engines to drive trains. Usually the locomotive is located at the front of the train circuit. The operator of the locomotive is called the engineer. Engineers run trains on orders from the train travel control center via signals located on the edge of the railroad tracks. Locomotives in Indonesia are divided into 4. Namely steam locomotives, hydraulic diesel locomotives, electric diesel locomotives and electric locomotives. The first diesel locomotive in Indonesia was the CC 200 type electric locomotive. The CC200 locomotive with model number Alco-GE UM 106T was the first double-engine electric diesel locomotive in Indonesia, made by the General Electric factory in 1953. As time went by, diesel locomotives increased and varied. . In 1977, the renewable electric diesel locomotive was imported from the American General Electric factory to Indonesia with the type CC 201 until 1992. Followed by the CC 203 locomotive in 1995 to 2002, and in 2003 Indonesia succeeded in making the first renewable electric diesel locomotive in collaboration with General Electric Transportation type CC 204 which is divided into 2 batches, until 2013, the latest locomotive with 2 cabins and a more sophisticated engine has been present in Indonesia with a CC 206 type of 150 units. And sent in 2 batches.

With this, Indonesia already has 139 units for CC 201, 41 units for CC 203, CC 204 with 37 units and the latest locomotive type CC 206 with 150 units in Indonesia. And until now, all locomotives are still able to run without any significant damage, because every month the locomotive always undergoes every periodic maintenance every 1 month.

Keywords: Locomotive