



TIRE WEAR AND TEAR

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Annotatsiya:

Shinalarning yemirilishi va distruksiya masalasi zamonaviy transport tizimlarida muhim ahamiyatga ega. Har bir transport vositasi, xususan, avtomobillar shinalari, yo'l harakati xavfsizligi, iqtisodiy samaradorlik va ekologik ta'sir nuqtai nazaridan alohida e'tiborga molikdir. Shinalar, avtomobilning yo'l bilan to'g'ridan-to'g'ri aloqa qiluvchi qismi bo'lib, ularning holati va sifatiga bog'liq ravishda transport vositasining ishlashi, yo'l tutishi va xavfsizligi ta'minlanadi.

Kalit so'zlar: shinalarning yemirilishi, distruksiya, bosim, materiallar, transport vositalari, avtomobillarning yuk ko'tarish qobiliyati.

Аннотация:

Проблема износа шин актуальна в современных транспортных системах. Каждое транспортное средство, особенно автомобильные шины, требует особого внимания с точки зрения безопасности дорожного движения, экономической эффективности и воздействия на окружающую среду. Шины – это та часть автомобиля, которая непосредственно контактирует с дорогой, в зависимости от их состояния и качества обеспечивается эксплуатация, управляемость и безопасность транспортного средства.

Ключевые слова: деградация шин, разрушение, давление, материалы, транспортные средства, грузоподъемность автомобиля.

Abstract:

The issue of tire wear and tear is important in modern transportation systems. Every vehicle, especially car tires, is a special consideration in terms of road safety, economic efficiency and environmental impact. Tires are the part of the car that is



in direct contact with the road, depending on their condition and quality, the operation, handling and safety of the vehicle are ensured.

Keywords: tire degradation, destruction, pressure, materials, vehicles, car load capacity.

INTRODUCTION

Tire wear mainly depends on several factors. These include road conditions, tire material, speed, load capacity, and many other factors. Each tire has a certain speed and load capacity, and their service life and efficiency depend on many factors. Tire wear usually occurs when the tire wears out or is misused.

MATERIALS AND METHODS

Road conditions play an important role in tire wear. Bad roads, rocky or sandy areas can cause rapid tire wear. Also, difficult road conditions, such as winter weather conditions, can quickly deteriorate the condition of tires. In these conditions, the tires are exposed to more friction and severe pressure, which causes them to wear out. Tire materials also play an important role in tire wear. Each tire is made of different materials, and depending on their quality, the life and efficiency of the tire varies. High-quality tires usually last a long time and wear less. However, cheap and low-quality tires can wear out quickly, putting safety at risk. Driving speed also affects tire wear. In fast moving cars, tires are exposed to more friction, which causes them to wear out faster. The load carrying capacity of the car is also important. If the car is driven with an overload, the tires are subjected to more pressure, which causes them to wear out quickly.

RESULTS AND DISCUSSIONS

Tire wear affects not only the performance of the vehicle, but also road safety. Flat tires reduce the vehicle's handling, which increases the risk of an accident. Also, tire wear threatens the safety of the road for other vehicles and pedestrians. Therefore, it is very important to constantly monitor the condition of tires and replace them at the right time. There are a number of measures that can be taken to prevent tire wear.



International Conference on Economics, Finance, Banking and Management

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24th January, 2025

First, it is necessary to check the tires regularly. Controlling tire pressure, profile and overall condition is important to prevent tire wear. It is also important to check the correct alignment and balance of the tires. Improperly positioned or unbalanced tires can wear out quickly. Second, tires must be used correctly. It is very important to choose and use tires correctly, taking into account the speed of movement and the load capacity. Avoiding excessive loading compared to other vehicles will help your tires last longer. Thirdly, it is necessary to change the tires on time. Tires wear out after a certain period of time and should be replaced when their service life is over. This not only improves the performance of the vehicle, but also ensures road safety. The issue of tire wear and tear is also important in terms of environmental impact. Flat tires can harm the environment. Tires, in turn, need to be recycled, and they need to be properly processed and disposed of. Proper disposal of tires is important for environmental protection and efficient use of resources.[1]

The time to replace worn tires depends on a number of important factors. These factors include tire condition, service life, and safety. Tires are the main part of the car, and their proper operation is very important to ensure the safety of the driver. First, it is necessary to regularly check the profile and edges of the tires. When a tire's profile drops to 1.6 millimeters or less, it is a safety hazard and it means it's time to replace it.[2]

If there are tears, cracks or other damage to the edges of the tire, this also requires replacing the tires. The condition of tires determines their service life and ensures safety. It is also important to monitor tire pressure and temperature. If the tire is over-inflated or operated at very high temperatures, this can cause it to wear out quickly. In such cases, it is necessary to replace the tires, as this may pose a safety hazard. Tire life is also an important factor. Usually, tires can last for 5-6 years. If the tires have expired, they should be replaced. It also depends on the materials and production technologies of the tires. If the vehicle carries a lot of load or the tires are driven with excessive loads, this will cause the tires to wear out quickly. In this case, it is necessary to regularly check the tires and replace them if necessary. Carrying capacity determines the life of tires.[3]

Faster cars cause more friction on their tires. Tires can wear out quickly if the vehicle is driven at high speeds or in a sporty manner. In such cases, frequent inspection and



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24th January, 2025

replacement of tires is necessary, as this affects safety. Tires of cars that drive in bad road conditions, such as rocky or sandy areas, need to be checked more often. Bad roads can cause rapid tire wear. Therefore, it is important to check the tires regularly, taking into account the road conditions. Periodically inspecting the tires allows you to monitor their condition and wear. If any damage, tears or other problems are found in the tires, they should be replaced immediately. This, first of all, ensures the safety of the driver and other participants on the road. In general, the time to replace worn tires depends on the condition, life of the tires, speed and road conditions. Regular inspection and careful use will help keep your tires safe. Tires are an important part of the car, and monitoring their condition plays an important role in ensuring the safety of the driver.[4]

CONCLUSION

In conclusion, the issue of tire wear and tear is important in modern transportation systems. Tires are the part of the car that is in direct contact with the road, depending on their condition and quality, the operation, handling and safety of the vehicle are ensured. Regular inspection, proper use and timely replacement are necessary to prevent tire wear. It is also important to properly dispose of tires and protect the environment. Constantly monitoring the condition of tires and replacing them at the right time not only improves the performance of the vehicle, but also ensures road safety.

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