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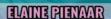












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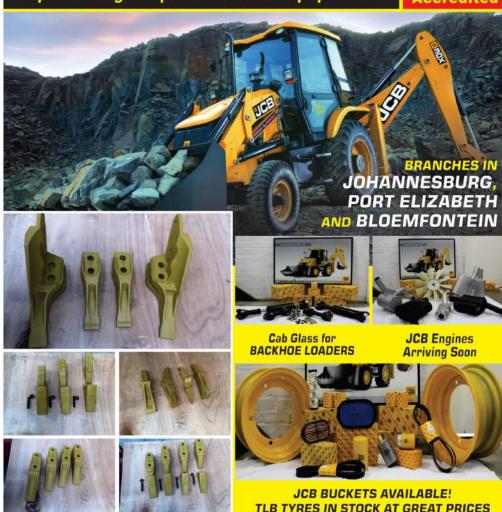
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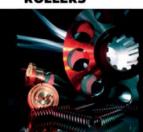
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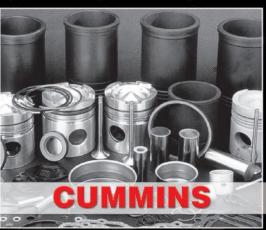




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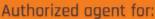


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This will also help prevent any potential crush accidents. Once you are confident that you are ready to start safely, follow the sesix steps to install your backhoe bucket tooth.

Step One

Use the removal tool to remove existing teeth.

Step Two

Remove the tooth and remove excess dirt or grime from bucket adapter, prepare it for the new bucket tips.

Step Three

Install on each new tooth and align them with the hole through the adapter.

Step Four

Insert lock pin through bucket tooth and adapter, or fasten it through the hole, ensure the pins are fully inserted.

Step Five

Hammer the bucket teeth pin until it was flushed with the end of the tooth.

Step Six

The installation is complete.

How to change excavator bucket teeth

By following these steps, you will successfully install your bucket teeth. But not all bucket teeth have the same type of tooth retainer that holds them in place.

Some have vertical pins, others have horizontal pins, and some don't use pins at all. So there suggest you read your owner's manual and check your manufacturer's recommended disassembly method before starting work.





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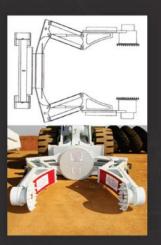


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n iconic agricultural vehicle, tractors perform a variety of tasks on the farm, such as plowing, harvesting, fertilizing, and spraying. Their influence has spread to a variety of other worksites, where they can help clear land, dig foundations, do heavy lifting, drill holes, and remove snow. Tractors often have large, wide tires that distribute the weight of the vehicle, preventing it from crushing the surface below.

A variety of useful implements can attach to the rear of the tractor, including buckets, forks, mowers, box scrapers, or wood chippers.

Key feature: Tractors make hard jobs easier by delivering high power at low speeds. With large wheels in the back to help the machine reach high torque power at slow speeds.

Where they are commonly found:

While tractors are almost synonymous with farms, you can also find them performing all sorts of jobs in the mining and construction industries, as well as landscaping and construction.



Types of tractors:

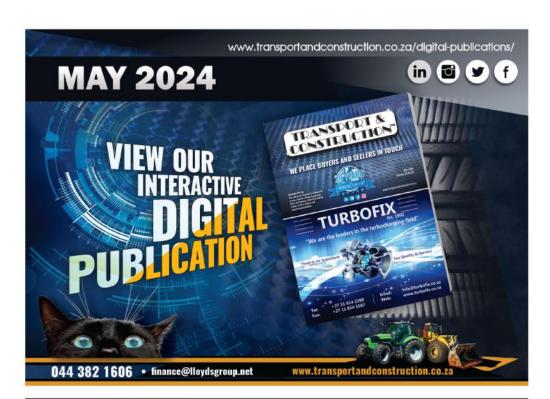
+ Utility tractors: TThese versatile vehicles can get it done—whether you want to clear snow, bale hay, or work livestock.



+ Compact tractors: Small farmers, landscapers, and DIY homeowners may find these small units just their size.



+ Row crop tractors: Row crop tractors perform the work of growing and harvesting specific types of crops.





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he TRENCHER

s the name suggests, trenchers create smooth, straight trenches as they dig through the earth. These heavyduty earthmoving machines feature a metal chain with steel teeth, allowing them to tear into densely packed soil and heavy tree root systems. Although both excavators and trenchers dig ditches as they move, trenchers create a cleaner trench with less backfill, allowing you to work faster.

Trenchers come in a variety of models with different specifications and applications.

Key feature: Trenchers move massive amounts of earth while leaving behind clean trenches with flat bottoms and smooth sides.



Where they are commonly found:

All sorts of construction tasks employ trenchers, including cutting pavement or concrete, creating drainage for sewage and water runoff, cutting trenches for electrical cables and telecommunications wires, digging spaces for water and sewage pipes, snipping tree roots, and even lighter digging work for home improvement and landscaping projects.

Types of trenchers:

+ Wheel trenchers. Also called rockwheels, wheel trenchers have a toothed metal wheel that you can use for hard or soft soils. Wheel trenchers work well in areas with many rock formations.



- + Chain trenchers. With their chainsaw-like design, chain trenchers use a digging chain or belt to cut into the ground. They make a good option for making deep, narrow trenches for utility companies.
- + Micro trenchers. In digging trenches with much smaller dimensions than traditional trenches, ranging from 0.5 to 2 inches wide and around 2 feet in depth.





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TYRE TIME IS MONEY

iners know it pays to be strategic when it comes to servicing their equipment, and haul truck tyres are no exception.

The humble mining tyre could be called the unsung hero of a mining operation.

No truck could run without them, and without trucks, no ore would be moved and the entire mining cycle would grind to a halt.

But like all pieces of equipment, mining tyres need regular maintenance to function well and this can mean removing them from operation, leading to the burden of unplanned downtime.

Mining companies always have one eye on improving their operational efficiency, and tyre maintenance can be optimised relatively quickly and easily using the tools that are available today.





A maintenance planning system designed to power uptime, performance and safety, TOMS allows miners to make informed decisions on servicing their tyres, leading to an uptick in productivity and safety.

Most tyre-related management systems are optimised to measure how long tyres last given the operating conditions.

The introduction of TOMS in 2016 means that the mines will know now how much it costs them in availability every year to service their tyres. That information is powerful in identifying opportunities for improvements.

Scheduling tyre servicing with truck maintenance can increase productivity and safety.

While tyre maintenance, whether planned and unplanned, inevitably leads to some downtime, a strong tyre management strategy means mines can make the best of these events.

The most important thing in tyre strategy is to choose one. For some mines, tyre performance may be the priority, while for others, fleet productivity will be king.

One way to minimise downtime when maintaining tyres, while also reducing safety hazards on-site, is to schedule servicing at the same time as other mechanical work on the truck.

A site that's bringing trucks down more often will be placing greater stress on its tyre crew than one that's able to aggregate its service work and have fewer downtime events.

Unplanned work could also mean that service crews must be dispatched into the pit. This places them at greater risk of harm and should be avoided wherever possible.

Through aggregated and anonymised datasets from TOMS, has been able to work with several of its customers to prove how effective tyre service optimisation can be. With mines agreeing on a tyre management strategy, it's important that they consider what success will look like.

They should determine whether they would like to maximise performance or productivity.



And while it's not usually possible to maximise tyre performance and utilisation, TOMS can help miners' strike a suitable balance between the two, allowing them to meet their safety and financial goals.

The ability to review the impact of a tyre service strategy on tyre performance and operational safety allows mines to quantify the impacts of their choices.

There's no right or wrong answer because, either way, the tools available today ensure that once a decision is made, can monitor and to adjust the strategy to drive the most amount of value for each site, whatever the circumstances.



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The Dangers Of

Overloading Your Truck

The key to success for any business is to minimise operating costs whilst maximising profit margins – but at no stage should safety or integrity be compromised.

That said – it is surprising how many businesses are tempted to overload their vehicles to increase the payload whilst

reducing their fuel or transport costs. Some businesses even go so far as to modify their vehicles to accommodate greater payloads, such as increasing the size of the tyres and installing anti-sway kits. However, this practice is not only short-sighted but can be extremely dangerous.

Monetary savings will be minimal – and companies run the risk of incurring substantial financial penalties for transgressing the law but more importantly, their disregard for safety could also put lives at risk.

Take a moment to learn about why overloaded trucks or trailers are dangerous.

When a truck is carrying more than its designated payload, its braking ability can be compromised. In other words, it may take longer for the vehicle to come to a complete stop – a situation which could have tragic consequences.

A larger than normal payload may also place additional stress on the vehicle's brakes which could lead to brake failure. Excessive weight can also place additional strain on the vehicle's tyres which could result in a blowout, which in turn, could cause the driver to lose control.

Bits of rubber and flying debris from the blow-out can also be dangerous and could cause an accident.

An overloaded truck may also be more difficult to control and turn and unless drivers have extensive experience in handling challenging situations, there is the potential for a serious accident.

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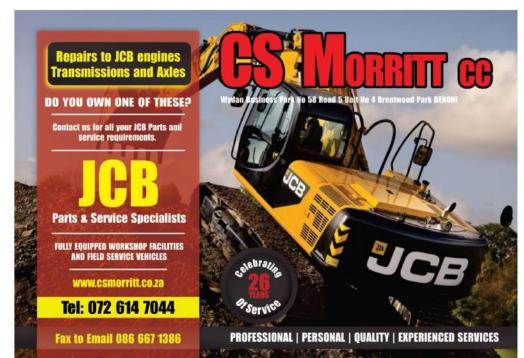
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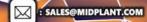




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THE IMPORTANCE OF HEAVY EQUIPMENT MAINTENANCE

One of the challenges in the industry is optimized machine output. In this article, we explore how good heavy equipment maintenance can keep your machines running at 100% percent.

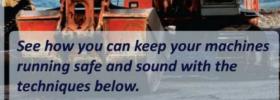
Do you have an optimized process to increase production efficiency? Leaders know that for optimum efficiency, all links in the mining chain need to work flawlessly.

Safety is also one of the primary concerns in the mining industry. Without sound equipment, it becomes difficult (and dangerous) to start any operation. In fact, fatalities and near-death accidents are not unheard of in a typical mining operation.

According to a report by CDC, 30% of all injuries and fatalities that occur in underground coal mining are due to accidents caused by poorly maintained machinery. Thus, maintenance is indeed one of the most important aspects of a safe mining operation and is top priority for serious miners.

Most of the equipment maintenance that happens today is reactive – machines are only repaired or checked if they break down or seem to be on the verge of breaking down.

So, an optimized maintenance system needs to be maintained to allow planned and predictive maintenance to avoid downtime, delays, and incidents that ultimately lead to significant financial losses. Proper maintenance of machines is the first step to attaining that goal.



Total Productive Maintenance

Total productive maintenance is one of the widely – recognized maintenance strategies. First developed for the Japanese car industry, this approach aims to improve operations to the point of zero breakdowns and defects. According to this strategy, a machine's maintenance can be divided into three categories of maintenance activities – reactive, preventive, and predictive.

Reactive Maintenance

Conventional maintenance management only covers maintenance of an equipment after it breaks down. These maintenance incidents are not scheduled and can happen at about any given time. Such maintenance activities are the most difficult to carry out. In the US alone, industrial companies spend about \$300 billion to correct the failures of machines, systems, and people. This issue can be resolved with a more proactive system for management of equipment.

Preventive Maintenance

Predictive Maintenance is the umbrella term accrued to all activities performed to prevent the degradation or breakdown of equipment before it takes place. These activities are scheduled according to the statistical life of the equipment.

The bathtub curve is used to determine the probability of failure of a machine over its history of operation. When the performance data of an equipment is mapped accurately with the help of technology (removing maximum probability of human error), preventive maintenance can be scheduled before the equipment breaks down.

Inspections, lubrication, and cleaning are part of preventive maintenance. Being predetermined, these maintenance activities will not disrupt schedule and delay production.

Predictive Maintenance

While preventive maintenance takes cognizance of average life statistics, predictive maintenance monitors real-time conditions of an equipment. This helps in predicting the average time of failure better.

The tools used for predictive maintenance include vibration monitoring, ultrasound scanning, thermal imaging, chemical analysis, audio gauges, and various other technologies and tests created to regularly collect data on equipment.

The staff should be trained to identify and survey all the machines at a site and use the information to build a reliable predictive program that would help make informed decisions.



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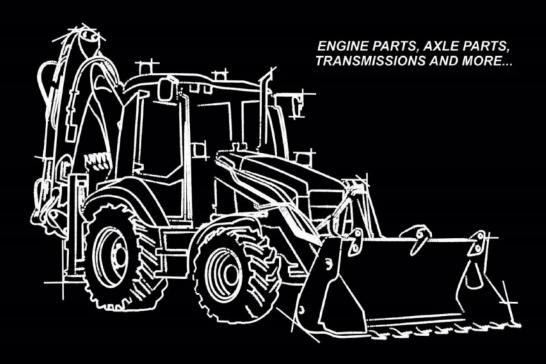


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HEAVY-DUTY BATTERY MAINTENANCE:

What You Need To Know

Battery maintenance should occur in conjunction with regularly scheduled Pms.

- Check and confirm the state of charge of the battery pack (prior to charging). If the SOC of the battery pack is below 12.4 volts the pack should be fully recharged to: Flooded battery = 12.65 volts; AGM battery = 12.85 volts.
- Make sure to check the state of charge of the battery pack and recharge if necessary before and after PMs, service or extended periods of non-use. We have seen multiple occasions where the batteries have been discharged to the point of failure from draws or parasitic leads related to scheduled maintenance.
- Check and confirm the security of hold-downs. If the battery is not secured properly, it can experience extra vibration and jolting that can damage the battery.
- Clean all terminal connections (group 31 studs or posts and cable lugs). Road dirt and grime/grease will reduce charge acceptance. Also, inspect

A battery manufacturer was asked... what types of Preventative Maintenance Practices Fleets should have in place to maximize their battery life.



and how often these should maintenance items be performed and checked.

Their advice:

When recharging, make sure to use charging adapters on all stud battery posts. Make sure the charging adapters are screwed tight on the stud so there is a good lead-to-lead contact between the post bushing and charging adapter.







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Water Saving Strategies

For Farming Businesses

Water conservation in the farming business has become an essential component of the production cycle. While it's not at the top of many farmers' priority lists because they need as much water as possible for their livestock and crops to survive, it's still important to implement water-saving strategies where they can to help save water in South Africa. Water, or the lack thereof, is what makes all crops grow and livestock thrive. And without farmers, consumers wouldn't have access to the food and produce we have today.



As the population grows, the demand for water in agriculture will also increase. Knowing this, now is the best time to save water and store what you have to keep your operations running smoothly. Depending on the type of farming business you own, you possibly utilise water in different ways compared to other farmers in the area. However, knowing and monitoring your water consumption is a good way to start tackling the sustainability issue before you have to think of additional ways to access water for your farm.

Here are a few tips to help save water on your farm:

Consider low-flow valves

On your farm, try to fit your taps with low-flow restrictions to ensure that the amount of water released out of the taps is limited.

These valves are popular in domestic settings, used on toilets and showers. However, with irrigation taps and general taps used for

livestock water and equipment cleaning, it will simply restrict or stop the water flow once it has reached a certain amount.



Apply for a water audit

As briefly mentioned, each business uses water for different reasons. If you are unsure of why your water reading is as high as it is, consider having a professional come in and audit your water consumption. Water leaks are causes of water wastage and increased bills, so if you're concerned, this is a good way to reduce your costs.

When you have an audit done, you will be provided with a detailed breakdown on where you're overusing water on your farm and how you can change that.

This breakdown will also work out the different uses of water on your farm, for example, household, irrigation or pasture, and calculate the amount of water needed for each area.

The auditor will also help you source alternative water options to ensure that you have a

consistent supply.

Be water-wise in your methods

In agriculture, there aren't always water-efficient equipment options, but it's more about the technique you choose to use with your equipment that can save you on unnecessary water costs. You can also make use of drone technology and artificial intelligence (AI) software to monitor your farmlands and generate real-time reports of where you are using your water. These technologies are costly upfront, but as an investment, saving money in the long-term.



Reduce landscape water use

Realistically, you should maintain your pasture and harvest lands throughout the year to prevent maintenance when the next production cycle starts, but in a drought, you cannot afford to keep your taps running without reason. Lush pastures and crop beds require plenty of care to keep healthy all-year-round, so think about better soil management, water recycling, drip irrigation, reservoir storage and organic farming systems. Censoring your usage can help you to avoid any wastage. You should also invest in a feasible plan for runoff, to reduce the amount of contamination to natural water solutions.

Keep employees engaged and informed

You need to keep your employees in the loop of your water saving efforts and educate them about the importance of being water wise in their own lives. Once your employees adopt a sustainable mind set, they will be more careful in their actions and make an effort to perform green practices in everything that they do. Conserving water is not only beneficial for sustainability and sanitary reasons but also to help preserve the environment we live in. Farming forms a vital part of the food production in South Africa, and without fertile lands, farmers would not be able to perform agricultural practices.

Final thoughts

Saving water on your farm requires a well-thought-out strategy and plan of action. If you don't make a conscious decision to save water, your operations are going to be affected and you will need to start looking for additional ways to source water for your farm. One of these will include consulting with PROXA Water in Cape Town about Cape Town desalination plant possibilities.

Desalination in Cape Town can be used for agricultural purpose It's a water-wise initiative that does come at a hefty price, but if you don't start saving and protecting water today,

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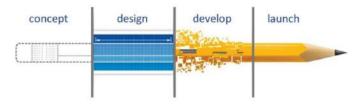




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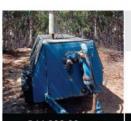


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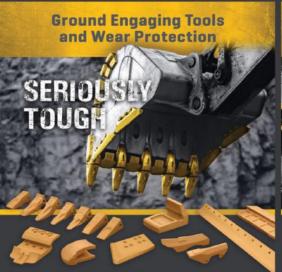
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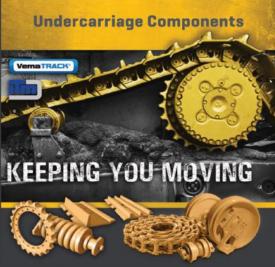


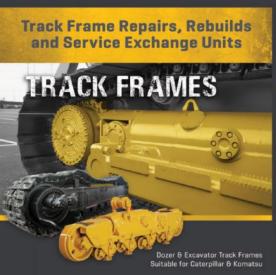


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