

TYPHON Thunder IV

Electric Wheel Loader Scoop Machine



Features

- Powerful, high efficiency and energy saving, low noise, zero emissions, four wheels
- Twist and turn, lightweight and flexible, suitable for indoor and outdoor workload.
- The electric power can be used for up to six to ten hours at a time, subject to the temperature of the working environment .
- Battery: five sets of 12V
- Double hydraulic power steering mechanism, easy steering, turning Radius.
- It is small, which improves accessibility and space utilization.
- Simple vehicle structure allows for easy maintenance, low noise and no pollution.
- Lowered the vehicle's center of gravity and improved stability; 500-12 adults
- High strength, non-slip, strong bearing capacity tires can be used in various work environments.
- Lifting height: 2.3 meters, dumping height: 1.5 meters.
- Dimensions: 2900*1000*1400 (length, width and height)

Four wheel drive electric loader storage method

1. Before sealing, carefully check if the charger is defective and make sure the vehicle in good condition and clean the exterior.
2. Turn off the main power and drain the hydraulic oil in the hydraulic system.
3. Remove the battery, apply grease to the electrode pole and store it
In a dry, dark, ventilated, indoor temperature of not lower than 10 degrees Celsius.
4. Add grease to each lubrication point. Apply dehydrated petroleum jelly
Clean plugs, connectors and unpainted metal surfaces. .
5. Repaint the stripped parts of the forklift surface accordingly.
6. Prolonged exposure to rain may damage charger. Keep charger away from rain to prevent fire from short circuit.
7. Put all joysticks in neutral position, straighten the forklift front wheel and, raise arm to low position.
8. The forklift should be parked in the hangar or carport, and the environment should be ventilated and dry. It is strictly forbidden to store it together with corrosive objects and gases.
9. Parts and on-board tools removed from the electric forklift must be cleared away. After washing, wrap it up and store it in a dry warehouse.

Four wheel drive electric loader maintenance method

1. Battery maintenance: Regularly check if the battery fluid is missing.

At least an adequate amount must be added to the appropriate liquid level.

2. Regularly check the pivot shaft and add an appropriate amount of grease.

3. Charging: The charging time should be controlled within 10 hours, and the 3-5 gears should be charged.

For 8 hours of electricity, the charging time of gear 5 or higher should be restricted within 6 hours.

4. The hydraulic oil should be replaced regularly, and the national standard 46# hydraulic oil should be added. In summer, 68# hydraulic oil needs to be added.

Four wheel drive electric loader push operation maintenance

The working environment of the loader is relatively harsh, and the parts are subject to strong vibration or collision. In order to ensure the normal operation of the charger and extend its service life, avoid knocking it or wetting it.

To prevent problems before they occur and reduce losses, the user must carry out regular technical maintenance of the machine to keep it safe.

When pushing material, the bucket cannot be in the dump position.

When pushing the material, make the bottom of the bucket parallel to the ground.

Four wheel drive electric loader push maintenance during transport operations

When transporting, lower the bucket to lower the transport center of gravity. The delivery method includes the following cycle processes, load-bearer shovel, dump truck loading, furnace mouth etc.

Efficiency is high when transferring materials within a distance of 100m, and vehicle speed should be based on road conditions.

During transport, it is forbidden to lift the boom with the load, especially when the site is uneven

.

Tire maintenance:

1. Maintain normal tire pressure. If the tire pressure is too large, the tire cloth and rubber will be affected.

Excessive tension is easy to break. Conversely, if the tire pressure is too small, the side of the tire will bend too much and cause the inside to wear out fast. When there is relative slip between the tire and the rim, it results in increased wear.

2. Proper operation is an important factor in improving tire life. Please note: Try to avoid skidding when braking hard, starting sharply and turning at high speed.

3. The tire must avoid contact with oil, chemicals, paint, etc.

4. After the machine has been used for a certain period of time, the tires must be transposed and the front and rear crosses must be replaced.

5. If the TYPHON is parked for a long time, the wheel loader must be jacked up to keep the tires off the ground and avoid direct sunlight to beam.

Load operation

Select the appropriate working method to minimize the number of turns and travel, improve work efficiency.

Keep the workplace level and avoid sharp turns or sudden stops when carrying heavy loads.

When driving at high speeds, do not insert the bucket into the pile or gravel.

Regular maintenance

Ordinary maintenance, daily maintenance before and after leaving the
Wheel loader

(1), check the water volume of the water tank, the oil volume of the fuel tank and the hydraulic oil tank, the transmission oil volume and the Bits must be added to the specified positions. If enough grease is added to each lubrication point.

(2) Check tire pressure.

If the tire slips, it will shorten the life of the tire, so prevent the tire from slipping during operation.

Right angle loading

The front of the loader is aligned with the stack of material, after picking up the material, drive in reverse in a straight line, then

The dump truck moves between the loader and the escort.

(3) Check if the operating mechanism is flexible, if the braking is reliable and if the signaling equipment is complete , it's good.

This method requires a short loading time and effectively reduces the duty cycle time.

(4) Check whether there is any abnormal noise after starting the engine and whether the instruments are normal.

(5) Check if there are oil leaks or water leaks in each part.

(6) Check gearbox, clutch, oil pump, front and rear axles, etc. for overheating.(7), check for loose and missing fasteners, then retighten and repair.

(8) After returning from winter operations, pay attention to the engine and water tank to drain the water.

Technical maintenance:

After about 50 hours of work, in addition to ordinary maintenance, the following maintenance is added:

Park the dump truck in position, so that the angle is formed between the loader and the dumper and the dumper and the dumper.

After filling the bucket at a 60° angle, the loader is reversed and rotated so that it faces the dump truck.

Go ahead and load the material into the dump truck.

This loading direction has small turning angle and high working efficiency.

The bucket is full when it is fully retracted or raised

When the height is high, vibrate the bucket first to stabilize the load.

Unloading the machine

(1) Press grease into each grease fitting throughout the vehicle.

After the loader approaches the unloading site, raise the bucket to the desired height. Push the bucket forward to operate Lever Advances bucket to dump material. For loading operations, lift the shovel at a certain distance from the truck.

After the bucket reaches the dump height, slowly approach the truck to unload. When unloading, pay attention to smooth movement to reduce the impact of the material on the vehicle. When the material sticks to the bucket wall, the bucket joystick can be manipulated back and forth to unload the material.

(2) Tighten the drive shaft connecting bolts, drive axle connecting bolts, tire nuts, etc.

(3) Clean the air filter, diesel filter, oil filter and gearbox, hydraulic Pressure tank and oil system filter.

Driving operation:

(4), check the handbrake lever, brake pedal, shift lever, accelerator pedal
If not, it needs to be adjusted if the clearance and running meet the requirements.

(5) Check the liquid level in the battery and the specific gravity of the electrolyte. If it is insufficient, adjust the specific gravity and charge.

Vector life and productivity.

Be careful while driving and working

Pay attention to the following safety issues:

1. The driver must pass the traffic regulations, mechanical structure, operating modes, etc., and read the instruction manual,
2. Passengers are not allowed anywhere except in the cabin while driving.
3. Pay attention to the work status of each department reflected by the tool at any time.
4. It is strictly forbidden for personnel to walk under the arm and bucket during operation.
5. When the engine is off, stop immediately to avoid an accident caused by steering failure.

Maintenance of Machinery

Check bucket, arm and arm for cracks and looseness.

Monthly technical maintenance, after approximately 200 working hours, in addition to daily and weekly technical maintenance , you also need to add the following items.

- (1) Check the transmission oil level and add it to the specified oil level.
- (2) Check hand brake and foot brake for wear and adjust free play.
- (3) Check the steering mechanism play and adjust it.

Quarterly technical maintenance, after approximately 600 working hours, as well as daily, weekly and monthly technical maintenance.

A test run should be performed on the wheel loader . The trial run can ensure a longer service life. However, using it in a harsh working environment from the start will greatly shorten the service life of the machine.

The first 100 hours of a new wheel loader should be broken in.

A. Try empty wheel loader

Run (about 8h)

1. After starting the machine, run it at low neutral speed for 5 minutes, then gradually increase to maximum speed and run for 10 minutes.

2. Operate the working device to raise and lower the boom and swing and retract the bucket. bucket, about 15 minutes.
3. Driving idle and the forward and backward slopes are from low speed to high speed respectively. When driving, you need to steer left and right and brake constantly.

The following works must be carried out after the test run of the empty TYPHON for eight hours:

1. Thoroughly check the bolts and nuts of all parts, especially the cylinder head

Bolts, exhaust pipe bolts, front and rear axle fixing bolts, wheel nuts, framework

Steering wheel mounting nuts, etc. should be fully inspected once.

2. Clean the oil filter and fuel filter element.
3. Verify that the fan belt tension is correct.

(i), according to seasonal changes, replace the appropriate grade of fuel, oil, gear oil, lubrication oil etc.

(ii) Check the leakage of the multi-way valve and various oil cylinders. If the working device sinks badly, should be fixed and excluded.

Six-monthly technical maintenance, after about 1200 hours of work, in addition to daily, weekly, monthly,

In addition to the quarterly technical maintenance items, the following items are to be supplemented

- a) replace all fuel, oil, hydraulic oil, gear oil, filter, etc., and then add purified new oil.
- b) check the braking effect and whether the rebound is sensitive.
- c) check and adjust the mesh marks and gaps of the main transmission helical bevel gear pair, and adjust at the specified interval.
- d) check linds clutch, gearbox and steering functions.

Annual technical maintenance,

A yearly technical maintenance of your wheel loader needs to be done after approximately 2400 working hours.

- (1) Disassemble and inspect the drive axle main drive and replace wear parts.
- (2) Check disassembly of gearbox and clutch and replace wear parts.
- (3) Steering box and priority valve disassembly inspection.
- (4) Check oil cylinder disassembly and replace oil seal.
- (5) Check the deformation and damage of each part of the front and rear frames and working devices and correct them.
- (6) Check the specific gravity and fluid level of the battery and tighten the battery cable. Bolts, check the connections of the various parts of the electrical system, the power supply status of the generator, lights and turn signals, etc.
- (7) The engine must be operated according to its instruction manual.*
The load is reduced when the material falls off the cliff or the machine reaches the top of the slope.
- (8) Check the transmission oil level When the engine is running at rest, the oil level should be within the oil level and the mark the at central position.

(9) Check the tightness of the hydraulic system and the braking system.

(10) Check connection and tightness of each joystick and throttle components.

Note

Speeding up is dangerous, so make sure you slow down.

-When the shovel is fully loaded, it is forbidden to start, turn or stop suddenly.

-When loading unstable materials, such as round, cylindrical, or sheet materials, raise the

-When lifting the work equipment, material can slide onto the cab, causing serious damage.

Homework test

Test run (about 20h)

1. Perform the operation according to the operation method and gradually increase the amount of load.
2. During the test operation of the operation, in addition to checking the inspection items of the empty vehicle test operation and also observe the loader shovel capacity in different materials.*

When loading unstable materials, avoid lifting the working equipment,

If the working device suddenly stops the descending action, it may cause the roll over the machine.

*Only allowed loader jobs can be done, other jobs can be done lead to serious accidents.

3. During the running-in period, the loading and unloading load should not exceed 70% of the usual load.

4. It is appropriate to shovel loose materials during the running and closing period, and the action should not be too violent or too hasty.

5. During the test operation, attention should be paid to the following points:

- a. If the bolts, nuts, etc. of each connection part are loose.
- b. There is some abnormal sound in each rotating part.

* It is forbidden to work in fog, snow, heavy rain and other conditions of

poor visibility,

Do not work until the weather improves and visibility improves.

* When working in tunnels, under bridges, power lines and other places with height restrictions, to prevent the bucket from hitting other objects.

* When unloading into the truck, check the

Check if anyone is near the loader attachment and be careful to avoid the bucket hitting the truck

c. Whether the reading of each instrument cluster is normal.

d. If there are three leaks in each system (related to oil, gas and water).

e. Whether steering and braking are supple and reliable.

*Especially when working in confined spaces, indoors and with other machines, to avoid accidents caused by encountering other objects, the machine must be safe

f. Whether the action of the working device is normal.

g. Except in emergency situations, avoid sudden starts, sudden turns and sudden stops.

h. Pay attention to the lubrication of the magazine and replace or add it according to the specified time.

Note

When going downhill, use the brake pedal and, if necessary, use the engine to assist braking, the neutral pulley is prohibited. When raising and lowering the boom, the hopper must be flat.

Some Operational Tips

- A) Always pay attention to the gearbox, clutch, front and rear axles, wheel hubs and brake, brake drum temperature, if there is any phenomenon, should find out the reason to exclude.
- B) Avoid high temperature work and heavy loads.
- C) Check if there are people or obstacles around, then honk the horn to warn and get started motor. Before starting, put each joystick in the neutral position. Insert the key into the switch and turn one position clockwise to turn on the power source, press the accelerator and start the engine. Start the engine continuously.
- D) Do not move for more than 15 seconds. If the engine cannot be started, wait for a gap of 30-40 seconds. When building embankments, back filling, or dumping material across a cliff, a pile must be dumped first, then push the previous stack of materials into the back stack.

The End

TYPHON Machinery

www.typhonmachinery.com

Check out <http://www.typhonmachinery.com> for more attachments to empower your TYPHON wheel loader.