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# WOLVERINE AGITATION BOAT

## POWER AND EFFICIENCY. THE PERFECT MIX.

Meet the Wolverine: the legendary agitation boat equipped with two high-powered, articulating propellers to circulate massive amounts of liquid manure at a high velocity. It consistently lifts, suspends and mixes solids and liquids together to provide the perfect nutrient balance, resulting in an unrivaled agitation process. This simple, yet durable agitation boat is built to handle the toughest liquid manure pumping environment.

## ADVANTAGES

- Maintenance-first design
- Efficient, propeller-based agitation solution
- Horsepower for next-level performance
- Highly maneuverable & user-intuitive

- Simple transport, load & unload

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## FEATURES

Explore the benefits that break up solids and the status quo.

**EXPAND ALL FEATURES**

**Achieve 24,000+ GPM**

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On average, it takes the Wolverine agitation boat 21 hours to turn over a 10 million gallon liquid manure lagoon three times at 24,000 GPM. We'll crunch the numbers for you: that's two times faster than the competition. It's all thanks to the powerful 300+ HP tier 4 engine, which allows you to agitate full-bore for 10 hours at a time before refueling. Then, you can easily dial back your propeller speed to save fuel once solids are in suspension.

Looking for even more power? Upgrading your Wolverine to a 455 HP engine increases GPM throughput by 11%, allowing you to move more liquid per minute (1,728,000 gallons per hour). The velocity also increases by 18% to gain even deeper penetration than our standard engine offering. How's that for performance?

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## A Rugged, Low-Cost Solution

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The Wolverine agitation boat was designed with durability, efficiency and ease of maintenance at the forefront. With **zero gate valves, no mechanical seals and only eight hydraulic cylinders**, the streamlined design simplifies the maintenance and cleaning process, saving you time and money. This allows for preventative maintenance to provide long-lasting ROI. After all, we're about agitating lagoons, not wallets.

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## Maintenance Made Easy





All your vital hydraulic hoses are intentionally designed for easy access. The result? Less downtime and more run time. The intuitive machine features a series of bolt-on components with simplistic guards for easy removal, servicing and thorough cleaning. Another bonus: this beast only requires 25 gallons of hydraulic oil for the entire system. The innovative oil reservoir reduces the size and weight of the system's hydraulic oil requirements, reducing maintenance expenses. Now, that really is maintenance made easy.

## Unmatched Climbing Ability





The high-torque drive system that complements the sheer size of its aggressive tires produces climbing ability that can't be matched. This is also thanks to the traction control system that ensures equal flow to each wheel. Plus, you don't have to use hydraulics to raise and lower the boat to enter and exit lagoons.

## Precision Steering





Turn tight corners and easily maneuver your boat on the ground using multiple steering functions. The Wolverine uses double-acting front and rear steering linkages. Why do you care? This ensures the steering is in sync at all times, providing extreme agility and control. Not only that, but you can reduce bank disturbance and rutting by utilizing crab, front and rear steer.

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## Control & Maneuverability Fit for a (Manure) King

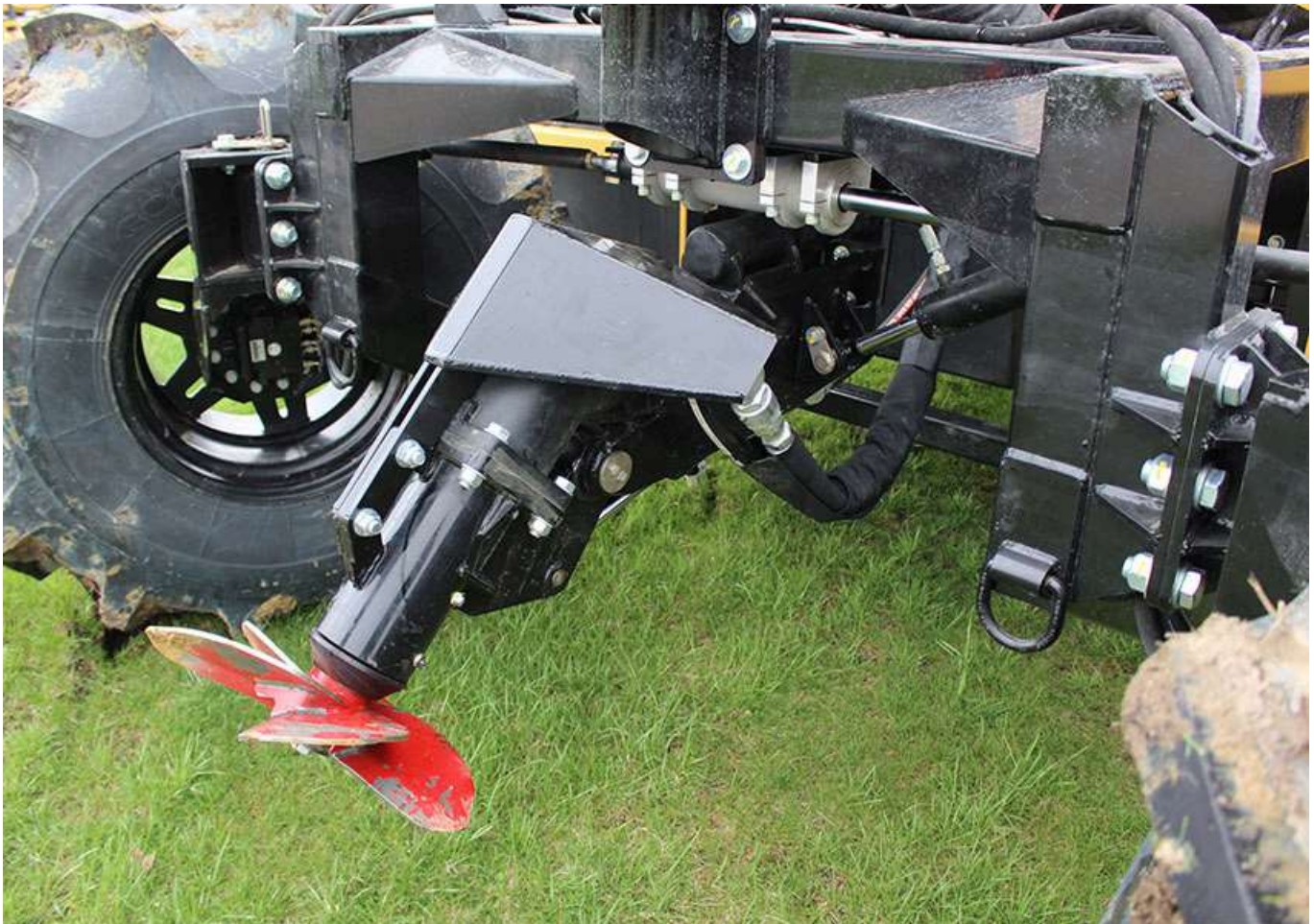




Always in control. Always agitating. The propeller-based design of this agitation solution provides extreme agility, maneuverability, and a high level of control, never at the expense of agitation. Easily side-shift perpendicular to a bank while using the front gun to break up solid buildup while also using the propellers to move manure below the surface.

## The Dual Propeller Advantage





Dual propellers are the secret sauce to moving large volumes of liquid manure and having extreme control over your agitation boat. Our ragless, high-speed propellers can move a whopping 24,000+ GPM every minute you agitate. (Yes...you read that right.)

The propellers create 4,000 pounds of thrust for agitation and maneuvering functions directly below the boat, establishing a solid center of gravity for stability. That means this well-balanced machine can move in any direction, even in the thickest sludge where most pumps cannot operate.

BONUS: The propeller positions are adjustable and programmable, which means they will return to the 'trimmed' location when the joystick is released. Propellers are protected between the tires during operation. This prevents damage to the machine, manure storage structures and lined lagoons.

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## Superior Stability





This agitation boat has a low center of gravity, giving it superior stability.

The 150-gallon steel fuel tank is centrally located directly beneath the engine, so whether the tank is empty or fueled up, the boat's stability is not compromised. The innovative baffle system inside the fuel tank ensures fuel is available at the pickup locations no matter the angle of the boat when entering or exiting a lagoon.

The high stance of the Wolverine's foam-filled floats eliminate concerns of tipping or sinking due to thrust, ice and manure buildup on top of the floats.

Not only that, but it can be easily lifted into over-the-wall storage facilities with the lift kit option.

Simply put: it's a super well-balanced machine and it's ready to get to work.

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## Remote Functionality





The Wolverine agitation boat is operated by an Eaton Omnex remote. The iconic dual propellers are controlled by smart cylinders, which means they not only stay synchronized, but they react quickly and precisely to the operator's inputs, making the boat extremely responsive and intuitive.

All boat functions are proportionally controlled for a smooth operation. That means no more stopping, backing up and realigning your boat when entering awkward or tight manure storage structures. With Wolverine's intuitive remote, you can operate multiple functions at the same time. That is what we believe is called a "mic drop" statement.

You can also keep an eye on the machine's vital functions with a simple interface that also displays warnings and codes.

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## GPS Integration



GPS comes standard on the Wolverine agitation boat. There are 3 GPS modes the Wolverine can work in, with adjustable speeds between .5 and 2 MPH.

**COVER:** This mode allows the Wolverine to travel and agitate at random within a boundary that you set. For those of you visualizers out there, think of it as “Roomba” mode.

**POINT-TO-POINT:** This mode allows the Wolverine to move from waypoint to waypoint in sequential order, following the line between each point. This mode is useful when first entering a lagoon, allowing you to focus on the outer perimeter, reducing the amount of bank washing required later.

**ANCHOR:** Anchor mode allows the operator to hold the boat in a single position and orientation without actively engaging the unit. When would this come in handy? If you’re wanting to focus prop agitation in one specific area, the boat will stay in place with anchor mode engaged. Additionally, if the front gun is being used to flood or bank wash, the props will automatically counteract thrust from the gun to keep the boat in position and pointed in the right direction. No need to beach your boat on the bank to hold it in place while using the front gun.

**PRO-TIP:** As your crew gets the pit pumped down, remember that each GPS waypoint can be adjusted individually. Move the waypoints closer to the center of the pit to

avoid damaging the liquid manure storage facility. The last set of GPS waypoints are automatically stored, so you can quickly pick up where you left off.

## Submersible Pump & Gun



The 18" Bazooka Farmstar submersible pump features a Hardox 500 Tuff housing and impeller.

BONUS: the pump and propellers are reversible to keep foreign objects from shutting you down. Equipped with a 5" diameter front gun that's steerable side-to-side and up and down. The hose outlet can face directly downward and be slightly submerged in the manure to aid in agitation, or it can be directed upward at a 15-degree angle for bank washing.

Since all Bazooka Farmstar agitation equipment and power units utilize a BF submersible pump, you can bet you'll always be supported by our dealer network and ready to work.

## Available with Cloud Monitoring



**Wolverine Cloud Monitoring** delivers real-time status, diagnostics, and analytics for Wolverine agitation boats. The cloud-based monitoring system provides live data, electrical troubleshooting capabilities, and daily GPS maps and reports.

# SPECIFICATIONS

## STANDARD

- Length – 21' 4"
- Width – 11' 3"
- Height – 11'
- 13' tall loaded on the Bazooka Farmstar-made Wolverine trailer
- Weight – 15,750 lbs. [filled w/ fuel and liquids] (Dependent on engine options)
- [4] Rice tires, 23.1-26, 12 ply [68" DIA x 24" wide]
- 4-wheel steering
- High-torque planetary wheel drives – **Freewheel capable**
- Double-acting steering cylinders
- 18" Bazooka Farmstar Submersible Pump
- Cummins 6.7 L, 310 HP, Tier 4 Final Engine
- 150-gallon steel fuel tank with an innovative baffle system
- [2] 20" diameter, Hardox 500 TUF steel, 5-bladed ragless propellers
- Custom-made prop bearing housing with hardened, nickel-plated 2.25" DIA shaft
- Gear oil bath with a quadruple lip seal arrangement
- Dual hydrostat Linde piston pumps
- Innovative hydraulic reservoir
- 8 fully proportional hydraulic cylinders
- Integrated GPS technology
- TEC-10 engine controller
- Dual-battery, Eaton Omnex remote control
  - Integrated shutdown safety and protective features

## UPGRADES

- CAT 7.1L Engine | 310 HP | Tier 4
- CAT 9L Engine | 455 HP | Tier 4
- John Deere 6.8L | 300HP | Tier 4
- Lift Kit:
  - Spreader bar
  - Lifting slings
  - Bolt-on lifting lugs
  - Anchor shackles
  - U-bolts

- Pivoting Front Gun with 5" High-Abrasion Vacuum Hose Plumbing
- Wolverine Cloud Monitoring

## WOLVERINE TRAILER

- Length – 32' 6"
- Width – 11' 2"
- Height – 2'
- Weight – 7,300 lbs.
- Electric brakes
- Dual tires [8 total]
- Tandem 12K springs on 16K axles [24K total axle capacity]
- Built-in rear ramps and storage area
- Combo clevis hitch (Pintle hitch available)

## MODELS

### 401-0010

- 18" Bazooka Farmstar Submersible Pump & Front Gun

## GALLERY



**FIND A DEALER NEAR YOU**

Bazooka Farmstar works with a network of dealers across the country, ready to help you find the manure equipment you need for your operation. Find one in your local area for your equipment and service needs.

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Toll-Free 800.775.7448 | Phone 319.653.5080  
800 E. 7th Street, Washington, IA 52353

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