

**Specifications for Four-Wheel Drive Wheel Loader
Adams County Road Department August 2020**

Equipment offered for consideration must be new and current year model. Used, demonstrator, or discontinued models are unacceptable. Bidders shall include printed literature for the equipment offered.

The following specifications are considered minimum acceptable.

Engine: Six (6) cylinder, turbocharged air cooled diesel engine and shall be designed by Manufacturer

Engine shall be certified to meet Final Tier 4 emissions standards
Engine maximum net power shall be at least 163hp
Engine shall have an Auto idle
Machine shall require diesel exhaust fluid and can be filled from ground level

Weight: Minimum machine weight 28,600 lbs. without additional counterweight

Hydraulics: Pump shall have minimum of 50GPM at maximum output

Hydraulic system pressure minimum at 3262 PSI
Hydraulic tank shall be no less than 23 US gallons

Hydraulic controls shall be equipped with either single lever joystick or forward/neutral/reverse switch standard on implement control joystick

Bucket: 3.0 Yd. Multipurpose bucket with BOCE (bolt on cutting edge) and pin on

Minimum full turn static tipping load 18650 lbs. with bucket and Z-Bar linkage
Minimum breakout force of 22600 lbs.

Minimum dump clearance @ 45 degrees shall be 9'

Electrical: Machine shall have two (2) batteries with 950 CCA (Minimum capacity)

Machine shall have 24 volt electrical system with 100 AMP alternator and with battery disconnect

Brakes: Machine shall have service brakes that are completely closed and sealed in oil immersed disc brakes front and rear

The parking brake shall be automatic; spring applied, hydraulic released, oil cooled, multi disc and sealed or electric

Axles: The final drives shall be heavy duty inboard planetary
Seals on axle and housing shall keep oil in and lock out contaminants out to prevent

contamination

The machine shall have standard hydraulic locking front differential with conventional rear differential

Transmission: Machine shall have preferred transmission with torque convertor or hydrostatic transmission forward and 3 reverse gears with speed of 22 mph forward in fourth (4) gear

Transmission sight gauge shall be checked from the ground

Tires/Wheels: Machine shall be equipped with 20.5R 25 tires with multi piece rims

Operators Station: Machine shall be equipped with ROPS/FOPS protection

Cab with air conditioning and heat

Cloth covered air suspension seat with 3" retractable seat belt; seat shall be fully adjustable fore/aft position

Cab shall have cup holder, storage compartment, rubber floor mat and 12 volt outlet

General Specifications: Machine shall have fenders covering front tires

Machine shall have built in counterweight

Rear bumper shall have a hitch with pin

Machine shall have a hydraulic or hydrostatic fan drive

Machine shall have ride control, automatic with speed settings

Fuel Tank capacity shall have a 51 gallon capacity

Hydraulic tank capacity shall have a 23.0 gallon capacity

Machine shall have warning system lights for engine, oil, transmission and hydraulic functions

Machine shall have driving lights, turn signals, hazard flashers, stop and tail lights

Machine shall have gauge for: Engine coolant temperature, transmission oil temperature, hydraulic oil temperature and engine oil pressure

Machine shall have digital read outs for: engine RPMs, odometer, transmission gear, direction, speedometer, hour meter and fuel level

Machine shall have environmental drains and oil sampling ports

The bid machine shall be equipped with OEM provided wireless communication system capable of monitoring and communicating machine location, fuel burn, as other machine performance data

- Warranty:** The bid machine shall have 60 months or 5000 hours. Full machine warranty whichever to occur first (Provide description of warranty with bid)
- Buyback:** 60-month machine buyback must be provided
- Other:** Bidder shall have a certified parts and service center located within 50 miles of Natchez, MS Adams County
- Must give estimate time of delivery
- Cost must include delivery to one of the county barns