

# BARTON COUNTY ROAD & BRIDGE DEPARTMENT

NOVEMBER, 2021

## **MINIMUM SPECIFICATIONS FOR ONE (1) MOWING TRACTOR**

The unit shall be new and from manufacturer's most recent design. (**John Deere 6155M or Case IH Maxum 150 or Cat Massey 7715**) The unit shall be completely serviced and ready for work with all the standard equipment. Model must meet OSHA, Federal and State Regulations.

### **ENGINE**

1. Six (6) cylinders, diesel fuel direct injected, wet sleeved & turbocharged.
2. 120 horsepower rated at 2100 RPM at PTO horsepower (minimum).

### **TRANSMISSION**

1. 16 speed forward with 12 speed reverse. (minimum)
2. Powershift or semi-powershift with at least four (4) speeds in each synchronized range.
3. Clutch free shifting forward to reverse, shuttle type shifting.

### **ELECTRICAL**

1. 12 volt – negative ground
2. Two (2) batteries – 185 CCA or 180 minute reserve capacity rating.

### **BRAKES**

1. Hydraulic, wet brakes.

### **HYDRAULICS**

1. Pump flow 20 GPM minimum
2. Operation pressure 2500 PSI minimum.
3. Three (3) remotes rear (minimum – **no exceptions**)
4. Pressure flow compensated.

### **REAR THREE (3) POINT HITCH**

1. Category III.
2. Minimum lift 24 inches 7,000 lbs. capacity.

## **REAR DRAW**

1. Heavy duty, straight adjustable in length, pin with safety clip included.
2. Tow hook mount on front weight bar with weights if required for mowing.

## **PTO**

1. 540/1000 RPM reversible shaft.
2. Independent, hydraulic activated, wet disc clutch.

## **TIRES**

1. Rear – 18.4R38 (480/70R38 metric) radial traction type.
2. Front – OEM radial traction type.

## **STEERING**

1. Tilt wheel – telescoping, power steering.

## **AXLE**

1. Front axle with tire mud guard or fender.
2. Front wheel assist, MFD – FWD – MFWD.
3. Front and rear axles adjust out to 88 inches wide, wheels dish out, flange type.

## **CAB**

1. Isolated mounted, suspended cab, sound insulation.
2. Gauges – analog type – fuel, tachometer, speedometer, etc. (or warning lights if gauges are not available).
3. Tinted glass: windshield wiper and washers of front and rear.
4. Rear view mirrors – one inside cab, one on right and one on left outside of cab. Manual adjusting and telescoping.
5. Work lights – two in front and one in rear.
6. Driving lights – two in front (high/low beam), two taillights in rear.
7. Turn signals – right and left with emergency flashers, wired to rear of Tractor
8. Beacon light (12" minimum rectangle bar visible 360 degrees), two (2) 6" oval flashing amber rear facing lights and slow-moving vehicle sign in rear.
9. Seat deluxe air ride.
10. Seat belt
11. AM/FM radio.
12. Fuses and relay centrally located in weather proof compartment.
13. Air cleaner with dual element.

14. Air conditioning with defrost for all cab windows.
15. Cab pressurized with duct work to all windows.
16. Mowing shield/screen, mounted at angle, cover rear window.
17. Complete set of filters, oil, air, hydraulic, cab, engine, transmission and DEF if required.

### **ADDITIONAL EQUIPMENT**

1. 40 gallon minimum fuel tank capacity.
2. Tool or chain lockable box.
3. Block heater and/or cold starting aid.
4. Exhaust – vertical discharge and shield.
5. Door lockable with **FOUR KEYS** to all locks including the ignition.
6. Reverse warning alarm.
7. Horn.
8. Mounting step and safety hand holds.
9. Two engine fuel filters – primary and final elements. (Elements spin on type)
10. Foot and hand throttle.
11. Differential lock – electric/hydraulic activated.
12. Parking brake with warning light.
13. Paint – OEM color.
14. Fire extinguisher (5 lb. ABC) with spring bracket mounted in cab.
15. Buddy seat in cab for training, testing and transporting purposes.

### **WARRANTY**

Manufacturer's minimum 24 month or 2,000 hour on machine, plus additional extended warranty of three (3) years, 36 months or 3,000 hours on full machine. No deductibles, travel time or mileage.

### **MANUALS**

1. Two (2) copies of operator's manual. (shop copy and tractor copy with storage case)
2. Two (2) copies of operator's maintenance manual. (shop copy and tractor copy with storage case)
3. One (1) copy of shop-type repair manual or technical manual in binder.
4. One (1) copy of parts manual.

### **NOTE**

Vendors are required to state any and all of the above specifications they cannot meet, and if options are available for substitutions.