

8000 Diesel Pro Stock Tractor

Rules Apply 2009 Season

Purpose: To build a Super Stock Tractor class that is appealing to our spectator. That will enable the TTPA to promote a wider verity of options to our promoter. Build an entertaining class that is affordable to someone that would like to start with an entry level “Pro farm Class”.

Scope: To encompass a wide array of pullers that will build off former TTPA Super Stock tractors.

Age:

1. Tractor will be a 1969 model or older, including the total model run of that make & model. (I.E.) John Deere 4020 – 1964 through spring of 1973 & Case 970 – 1969 through 1974.

Engine / Drive Train Specifications:

1. Engine means: Engine Block, Engine Heads, Cylinder, and Crankcase.
2. Maximum cubic inch allowed is 407.000, only the factory variance of sizing is allowed.
3. Tractor must be stock appearing to the eye, for the make and model. Transmission / Drive Train, Gears and clutches may be after-market as long as Tractor stays stock appearing to the eye with No modifications to the outside of the tractor. (See OEM Stock appearing rules 2 & 3 for exceptions). No slipper / centrifugal clutches allowed.
4. All External components will be factory original, or stock to the eye.
5. All components must bolt on in the original locations from the manufacturer, without modification.
6. Engines may be swapped for like engines. Example: Oliver 88 may use an Oliver 1800 engine; International 806 may use an 856 engine. John Deere 4010 may use a 4020 engine (No 30 Series JD Engines allowed). As long as the cubic inch remains 407 or below.

- A. John Deere's may use engine block to accommodate inline injection pump such as late 4320 or 6600 combine
7. Heads must be OEM and must look stock to the eye however after-market work can be performed internally to the head, including Valve Train, Cam, and Pistons. **Example no JD 55 series head.**
 8. Primary Fuel supply can have only one type, electrical or mechanical! You must have one or the other, not both combos. With one (1) regulated stable constant pressure fuel system, including the regulator, which no part of the fuel system can be adjusted, or be in reach from the driver's seat or driver platform. All adjustments must be made while standing on the ground (OFF) the tractor.
 - A. The maximum size pump for diesel injection is a **Bosch P-3000 with one (1)-13mm maximum pumping unit per per cylinder**
 9. Electric fans & Electric water pumps allowed.
 10. Torque amplifier Allowed but driver cannot shift during pull effective 2008 season.

Fuels:

1. Diesel fuels only.
2. No pressurized fuels allowed. Example, LP gas
3. No nitrous allowed.
4. No nitrous paraphneilia allowed on tractor. Functional or non-functional.
5. No Fuel fogging allowed. Period!
6. No ice or ice injection allowed or injected into any part of the fuel system, intake manifold, radiator, or any engine compartments. No ice period, anywhere on the tractor.
7. Water injection is allowed. **No oxygen carriers or combustion accelerators.**

Engine RPM's:

1. 3250 maximum Rpm's – Variances may be given by Board for competitiveness.
2. Mandatory working governor – will be RPM checked by TTPA Tech Official.
3. Rpm's cannot be regulated (adjusted) off the hand and or foot throttle. All adjustments must be made from off the tractor at the pump.
4. The TTPA Tech. Officials have the authority to pull the throttle for all Tech. / RPM checks.
5. The owner / Driver is responsible for placing reflective tape on his/her flywheel / harmonic balancer for the RPM tech. Check.
6. No reflective tape on the tractor for tech. Check, is an automatic disqualification.

Turbo's

1. Base bolt pattern will be no longer than 2.75 X 3.5 inches, or the metric equivalent of **69.85 X 88.9 mm.**
2. No altitude kits allowed.
3. Inlet, outlet diameter / wheels, will be measured at the face of the wheels inlet/outlet. 1/8 inch straight down on the impeller and 1/8 inch above fins on throat.

(Note: # 3a & 3b as of Jan. 20, 2007 supersedes above Rule #3)

- A. The compressor inlet measurement to be measured at the face of the wheel a maximum of 2.5 inches. Tips of wheel must protrude into opening at least 1/8 inch. **Note:** *Housing may use a reducer or slug if welded in place. No setscrews or provisions to remove slug. Tip of wheel must protrude into opening.*
- B. The exhaust outlet measurement to be measured at the face of the wheel a maximum of 2.8 inches. Tips of the wheel must protrude into 2.8 inch opening at least 1/8 inch. **Note:** *Housing may use a reducer*

or slug if welded in place. No setscrews or provisions to remove slug. Tip of wheel must protrude into opening.

4. No throat reducers allowed in the throat area. A Tight slip fit 2.500 diameter on the cold side wheel inlet, from the air cleaner, and a tight 2.8000 diameter on the hot out to the valves outlet compressed side will be allowed. Anything used bigger than a tight slip fit is illegal. Or in metrics, 63.50 X 71.63 mm respectively. (See 3A & 3B 2009)
5. Only the air that passes through the inlet opening is legal. No back cover cheaters allowed.
6. There will be no welding, or altercations in the foot turbo.
7. Turbo inlet / exhaust opening's need to be accessible for spot checks.
8. 315 cid or less is allowed 2 turbos (same turbo rule as 3A & 3B) Added for 2008 season.

Tractor OEM Stock Appearing

1. Hood, Grill, Frame, Transmission, Rear Axles, Clutches, Brakes; Must be stock appearing and dimensional for that make and model. (See # 2 & 3 Exception)
 - A. Tractors are allowed to make sheet metal change as long as it stays on the original manufacturer. (Example JD on JD, IH on IH ect.)
2. A tip-up hinged hood is acceptable. Hood must be hinged on the inside of hood, not seen by the eye.
3. A bubble or hood modification may be added to the hood only if space is needed for a turbo to be installed. The bubble or hood modification must be integrated into the hood to look factory finish. ('Finish look' is at the boards discretion to look better, if need be.)
4. Homemade front Axles are allowed.
5. Wide fronts only. No narrow front allowed.
6. Three point hitches are not allowed on the tractor. All hitches must follow N.T.P.A. hitch rule
7. Brakes must be as good as original OEM, or better. Aftermarket brakes allowed

8. Weights must not exceed rearward beyond the back of the rear tire, and cannot exceed 11 feet forward beyond the centerline of the rear axle. No three point weight brackets allowed.
9. No differential locks will be allowed in competition, and shall be deactivated at all times.
10. Tractor frame or chassis cannot be (Lengthened or shortened or width changed).
 - A. A covered stock appearing tube frame to include tie bars (Follow Current NTPA Specs).

Tires and Rims:

1. Rear Tire – Maximum size tire shall be 18-4-38
2. Maximum width of rear rim shall be 18”.
3. Rear Chrome rims allowed
4. Front Tire – any size farm tire.
5. Front tire centerline must track on the inside line of the rear tires.
6. Front Tire Rim – (steel rim, steel chromed rim, aluminum rims, and race rims allowed).
7. Single top cut tire only.
8. Rear Radials tires are allowed.

Safety:

1. Wheelie bars – NTPA / Pro Farm Rule. Roll Cages (built to SFI specs), tie bars, and a detachable steering wheel are mandatory.
2. Must have kill switch – Must kill electrical fuel pump, deactivate the air shut-off, per N.T.P.A. Pro Farm rules. Located in an area on the tractor, that is easily accessible to a TTPA tech, or TTPA track official.
3. All mechanical fuel pumps Must Have three (3) way dump (Diverter) valve.

4. Steel fans must be shrouded so the blades cannot be seen when standing perpendicular to the edge of the shroud.
5. Must have factory appearing OEM fenders.
6. Must have 200 pounds of movable ballast weight.
7. Must have Engine side shields.

A. Tractors with fiberglass hood assembly must add a side shield of .060 steel or aluminum to each side, inside the hood next to the engine compartment securely fastened to the frame. Each shield must be independent of hood assembly and extends vertically to base of the head in height and must be as long as the block in length. In the event of hood being open these shields would remain in place.
Note: This is in addition to current shielding rules.

8. Must have “Dead Man” foot & hand throttle. SEE GENERAL RULES.
9. Must have (working) 2.5 LB, Fire Extinguisher (easy access for & by Driver).
10. Must have TTPA mandated RPM hook-up pigtail securely fastened to the rear of the tractor for easy access to the hooker & un-hooker of the TTPA pulling sled. No tractor will hook to the sled without this working devise.
11. SFI Clutches & Flywheels recommended for 2009 and mandatory for 2010. (If not must have blanket.)

Drivers:

1. Driver must be 16 years old with valid proof.
2. Drivers will drive at their own risk.
3. Must wear Dot full-face helmet and neck brace.
4. Must wear SFI 3-2 / A1 fire-suit, head sock, gloves and shoes.

Tech. Officials are: Divisional Rep. & TTPA appointed Tech. Official.

Note: All rules are in place for one (1) years, ending, (Post) 2009 Pulling season. Rules may be changed at anytime for safety, if so desired by the TTPA Board. A non-safety rule can be changed if, 100% of “paid, active & current pulling membership of the class” agrees, and the board gives unanimous approval. By a vote of the Class Rep. and Board, the fairness rule may be instated anytime during the season by way of weight variance or hitch height.

Note: The following rules are considered “maximum limitations” for the #8000 Diesel Pro Stock Tractor’s that pull in this class.

If our rules don’t identify something you may want, DO NOT Assume and Ask Later as you will be in violation of the TTPA disqualification General Rules. The TTPA Board of Directors must approve Any & All requested changes.

*Document released (1 year trial rules) January 2001 by A. Childs / TTPA board
Revised & approved - Feb. 2002 for three years. TTPA board.
Revised Feb. 2003 - changed Rpm’s from 3000 to 3250 Rpm’s by class membership vote.
Changed name.
Approved by the TTPA board: Feb. 22, 2003.
Revised & Approved by the TTPA board: April 17, 2004 to reinstate wording (Can use Rear Radial Tires)
Revised & TTPA board approved December 1, 2005 – Highlighted area’s in light blue
Revised & TTPA board approved January 20, 2007 –. Engines 6a was added./ Injection Pumps 8a was added / Torque amplifiers 10a was added / Turbo’s # 3 become obsolete & 3a & 3b supersede rule # 3./Tractor OEM Appearing Frame &Chassis- 10a was added. / Safety 1a was added
Revised 2/21/09 ~ Revised Rule #7 & #8A – Engines, #7 – Fuel, #1, #4, #8 – Turbo’s, #1A – OEM Stock Appearing, #1, #7A&11 – Safety, & #3 – Drivers. Class approved & Board approved 02/21/09. 2nd Reading March 20,2009.*

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