

Class 54

8,500lb. Pro Farm Tractors

With the exception of safety requirements approved by the board.

Weight:

1. 8,500 lbs

Engines:

1. Maximum 510 cubic inch limit, 1% tolerance.
2. Water injection is allowed. No oxygen carriers or combustion accelerators allowed. Water only.
3. Turbos are limited to 3" inlet x 3.5" outlet.
 - a. Compressor wheel must protrude into the 3" bore at least 1/8 inch.
 - b. All turbine wheel blades must protrude into the 3.5" bore at least 1/8 inch.
 - c. Intake and exhaust will be measured at the intersection of the wheel face and tip diameter.
 - d. No variable geometry turbos.
4. No additional openings in compressor housing outside the 3" opening. MWE groove is allowed to be open.
5. Factory cast iron cylinder head and block, no deck plates.
6. Diesel fuel only, no additives or pressurized fuels, NTPA fuel guidelines 409.
7. Stock appearing manifolds, intake and exhaust.
8. The largest fuel injector pump allowed will be a Bosch P series pump with only one plunger per cylinder.
9. Maximum of two valves per cylinder.
10. Engines must be from same manufacturer and must bolt in stock location without modification.
 - b. Any and all engine upgrades must not cross manufacturer's lines and must be approved by class members and Board of Directors.
 - i. Class members and Board of Directors have approved the use of a 12 valve 5.9L Cummins in an Oliver 16xx-18xx series chassis for the 2013 season.
11. Mechanical fuels systems only. No computerized or electronically controlled fuel systems.

Hitches:

1. Hitch height is maximum of 20 inches.
2. Must be within 18 inches to 30 inches behind the center of the rear axle.
3. Must be ridged with no movement in all directions.
4. No more than 1 1/2 inch difference between hitch mounting point and hitching point.
5. Hook hole is required to be a minimum of 3 1/2 inches ID.

Tires & Wheels:

1. Maximum tire size 18.4/38.

2. Front tires must track rear tires.

Safety:

1. Emergency air shut-off is mandatory (must be easily accessible to person hooking the chain).
2. If equipped with an electric fuel pump, tractor must have:
 - a. an electric kill switch wired to the emergency air-shut-off, or
 - b. a manual three-way dump valve ahead of the injection pump, to be operated by the driver.
3. Must have fire extinguisher that is within reach of the driver.
4. Must have working, individual rear brakes. Must have needle bearing cross in differential.
5. Must have wheelie-bars.
6. Must have clutch blanket or steel shield installed 270 degrees 3/8 inch thick, and 12 inches wide.
7. Seat belt required.
8. Roll over protection mandatory. 3 bar roll cage manufactured from 2" OD x .120 wall.
9. Must have a steel flywheel and clutch assembly.
10. Engine side shields are mandatory. Shields must be solid and minimum of .060" thick steel, or .120" thick aluminum.
11. Tie-bars securing front frame rails to rear axle housing are mandatory.
12. All drivers are required to wear helmets and jackets with SFI rating of 3-2a-1.
13. Must have 2 – 3/8" bolts in a cross pattern installed in exhaust pipe.

Appearance:

1. Tractor must be in stock appearance, hoods, grills, & fenders.
2. Must have stock appearing frame rails.
3. Stock bell housing, stock transmission housing, and stock final drive housing or manufacturer's replacement. No component chassis.
4. Maximum wheel base is 114".
5. Maximum length is 13' from center of rear axle to forward-most part of tractor, including weights, not including front hitch.
6. Front skis recommended in 2014.

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