

Competitive Comparison

CLAAS AXION 930 TERRA TRAC: Turning Benefits, Track Life, & Comfort

Data collected in a side-by-side field comparison with the CLAAS AXION 930 TERRA TRAC (TT), the Case IH Magnum Rowtrac, John Deere 8RT and John Deere 8RX shows an accurate comparison of turning abilities, track heat and lifespan, and cab comfort - all of which the CLAAS tractor excelled in.

Key outcomes.

- The CLAAS AXION 930 TT was less destructive to the soil while turning than the competition.
- The TERRA TRAC system on the CLAAS AXION 930 generated up to 20% less heat build-up.
- The operator in the CLAAS AXION 930 TT experienced less movement and vibration compared to competitive cabs.

Comparison Process

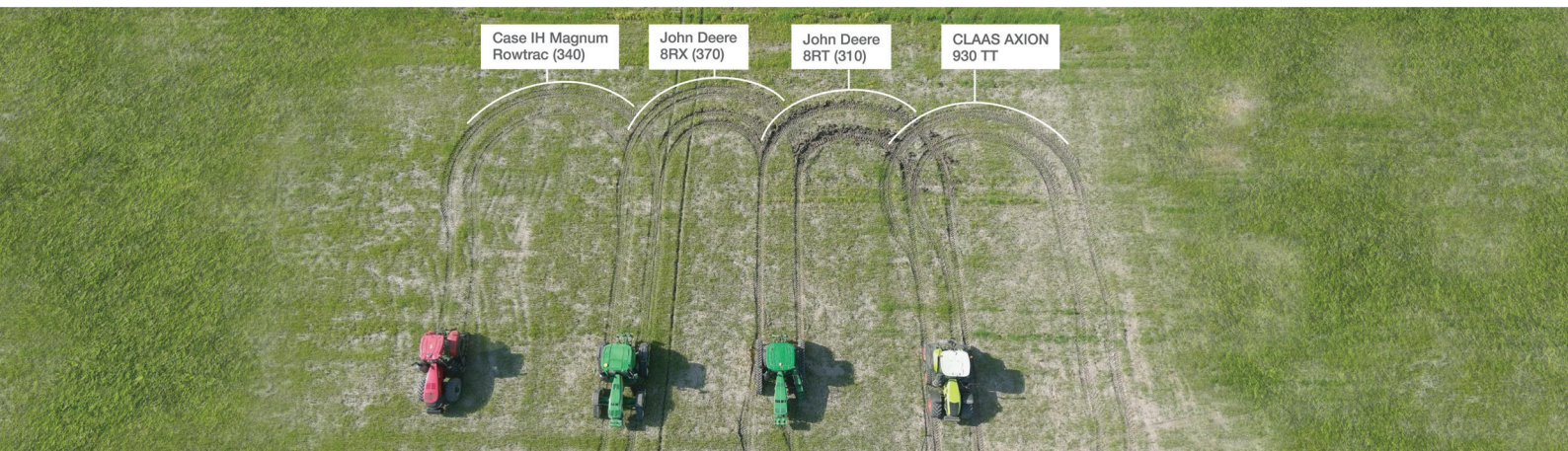
Location: Boyle, Mississippi

Machines compared:

- CLAAS AXION 930TT
- Case IH Magnum Rowtrac (340)
- John Deere 8RX (370)
- John Deere 8RT (310)

Our approach.

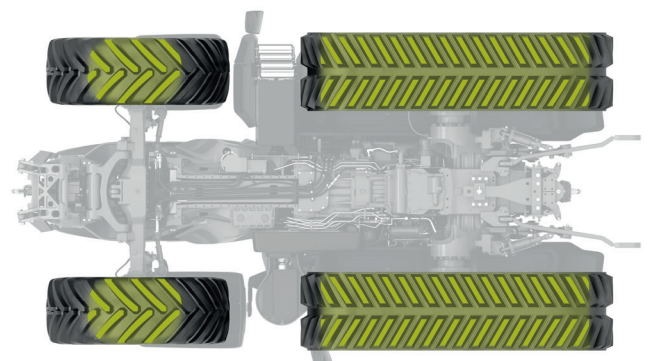
All machines were run on the same day in either the same field or on the same roadway. Fuel and DEF tanks were filled and a weighting report was conducted prior to the three tests.



Turning abilities.

The CLAAS AXION 930 TT was less destructive to the soil while turning than the competition.

The front wheels working together with the TERRA TRAC system designed specifically for the AXION tractor bring a more positive outcome when it comes to turning at the headlands. Producing minimal berming and soil disturbance compared to that of a two-track tractor, plant emergence can increase. This coupled with 25% less ground pressure than a standard wheeled AXION, ensures healthier soil for the longterm. **Why?** Even during tight turning maneuvers at the edge of the field, the tracks do not slide – so the soil remains level with little disturbance. The TERRA TRAC is also shorter than a two-track system, plus, standard on every AXION TT tractor, brake assisted steering is integrated into the existing machine brakes for a seamless turning experience.



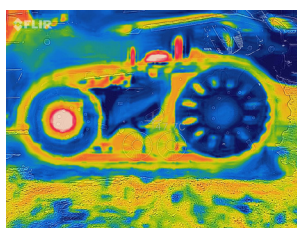
Pictured: The front tires work together with the rear TERRA TRAC system to achieve an even better turning radius than a wheeled AXION when using brake assisted steering.



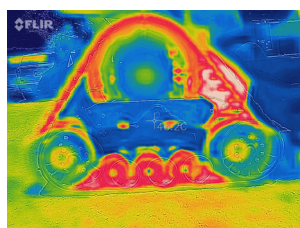
Track heat.

The CLAAS AXION 930 TT generated up to 20% less heat-build up than tractors with a positive drive track concept.

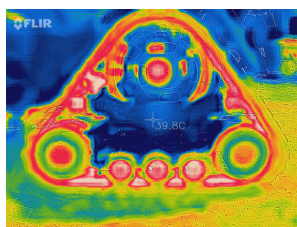
Temperature readings were taken after each tractor drove on pavement for 10 minutes. The process was replicated after 20 minutes, and finally at 30 minutes. After half an hour, the tracks on the Case IH Magnum Rowtrac were 20% hotter than the CLAAS AXION 930 TT, and temperature readings on the John Deere 8RX also showed significantly more heat build-up. **Why?** The TERRA TRAC concept encompasses a friction drive design, bending the tracks at two points. Compare this to a positive drive concept with three bends, equipped on competitive machines like the Case IH Magnum Rowtrack and John Deere 8RX. Heat-build up can contribute to lowering the life of your tracks - adding expensive unanticipated costs to general tractor maintenance.



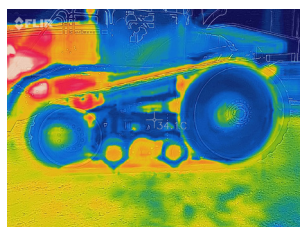
AXION after 30 minutes



Case IH after 30 minutes



JD RX after 30 minutes



JD RT after 30 minutes

	10 minutes	20 minutes	30 minutes
AXION 900TT	99°	104°	105.5°
Case IH Magnum	105.5°	116°	129°
John Deere 8RT	98.5°	99°	102.5°
John Deere 8RX	front 102.5°	front 111°	front 115°
	back 103°	back 111°	back 115°

Pictured: Tractors with a positive drive concept outlined in red.

Operator comfort.

An accelerometer showed the CLAAS AXION 930TT operator experienced less movement in the cab.

An accelerometer was placed under the operators' seat to capture axis movements in the cab. Results were analyzed visually through Pico Technology software. The flatter the lines, the less distance movement is being recorded. The thinner the lines, the less force movement is being recorded. The AXION 930TT proved to be consistently flatter and thinner in all axis movements. **Why?** Four suspension points fully isolates the cab from the chassis, preventing impacts and vibrations from reaching the operator. Coupled with a fully-suspended track system that's designed to keep constant ground contact, the driver's comfortability significantly increases compared to competitive brands.

SIDE-TO-SIDE READINGS @ 7 MPH:

CLAAS AXION 900 TT*



Case IH Magnum Rowtrac 340*



John Deere 8RX*



John Deere 8RT*



Pictured: Accelerometer readings in side-to-side movements. The thinner, smoother the line, the more comfortable the cab is. *Derived from internal studies, 2021