CAT® COMPACT TRACK LOADER HEAVY DUTY RUBBER TRACKS VS. ARISUN AND TROJAN RUBBER TRACKS

KEY ADVANTAGE

Cat® Compact Track Loader Heavy Duty Tracks are designed as an integrated component of the machine undercarriage. This ensures proper operation and performance with built-in durability and quality features to reduce the risk of premature failure. During recent testing, the Cat track demonstrated lower wear rates than the competitive tracks tested.

	CAT®	ARISUN & TROJAN
ENGINEERING	• High rubber toughness reduces sensitivity to tread damage. • Material specifications lower the risk of cracks forming, which protects the internal steel components. • Track design is integrated into overall undercarriage system, ensuring proper function and maximum life for all undercarriage components.	• **Trojan:** Wear pattern on rolling path shows edge loading due to improper roller interaction (see next page). • **Trojan:** Vibrations noted during on-machine test suggest improper sprocket interaction. • **Arisun & Trojan:** Both tracks weigh more than the Cat track but wear faster. Extra rotating mass can require additional fuel burn.
PERFORMANCE	• Lightest track tested with lowest wear rates; Cat design maximizes life while minimizing the fuel consumption and turnability impact. • None of the rolling path wear patterns noted on the competitive tracks were noted on the Cat track. • None of the track tine wear patterns noted on the competitive tracks were noted on the Cat track.	• **Arisun:** Misaligned embeds caused interference with rolling components, resulting in the operator feeling machine vibrations. • **Arisun:** Embed teeth material rolled over at 100 hours, showing insufficient material hardness. • **Trojan:** Accelerated teeth wear led to multiple detracking events.
RELIABILITY & DURABILITY	• Quality control checks were performed throughout manufacturing process. • Consistent wear rates allow for predictable service life. • Absence of cracks in the tread and rolling path means that that the steel embeds and cables remain protected, preventing premature failure.	• **Arisun:** Premature wear out of track tines shows insufficient material properties or quality control deficiencies. • **Arisun:** Deep cuts in rolling path exposed steel embeds, which caused the embed to pull out and fail. This caused the test to stop before the tread had been 100 percent worn. • **Trojan:** Wear pattern noted on the embed at the sprocket engagement site can lead to premature sprocket wear and performance issues.

CAT VALUE DIFFERENTIATORS:

Integrated Track Design

Ensures proper function and maximum life for all components.

Light Design, Low Wear Rates

Helps extend life while minimizing fuel consumption and turnability impact.

Predictable Service Life

Allow for predictable service life.

Source: Arisun Lab to Field Comparison, Sept. 2024; Trojan Lab to Field Comparision, Dec. 2024

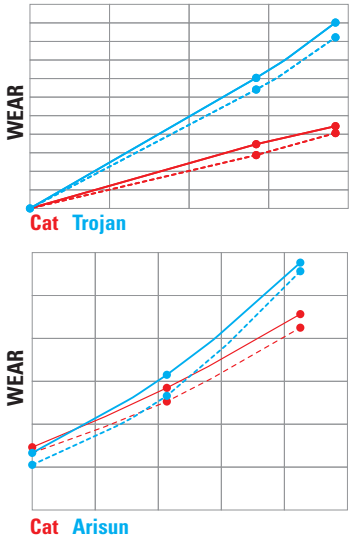
TEST EXECUTION

Cat Compact Track Loader Heavy Duty Rubber Tracks were analyzed at a third-party lab and tested on machine as part of a side-by-side comparison on a closed course utilizing various underfoot conditions.

RESULTS

Lab testing showed Cat® Compact Track Loader Heavy Duty Rubber Tracks to be stronger, tougher and more abrasion resistant.

Specification	Description	Location	Cat vs Trojan	Cat vs Arisun
ASTM D412	Tensile Strength	Ground Engaging	+10%	-7%
	Ultimate Elongation		+15%	+14%
	Toughness		+39%	+19%
ASTM D5963	Abrasion Resistance Index		+32%	+30%
ASTM D412	Tensile Strength	Rolling Path	+37%	+22%
	Ultimate Elongation		+4%	-21%
	Toughness		+51%	+6%



Cat demonstrated lower wear rates over competitive tracks, with longer wear life in strength, elongation, toughness, and abrasion resistance.

RUBBER

Little wear was noted on the Cat track during on-machine testing, while chunking and grooves were noted on the competition's tread and rolling path, respectively. Such damage compromises track performance and can lead to premature wear.

STEEL COMPONENTS

The competition exhibited several wear patterns that led to detracking and vibration issues, while the Cat tracks stayed within acceptable wear limits. These wear patterns can cause reduced lower productivity and operator comfort, while also limiting the service life of the track. Improper engagement with the sprocket can also lead to premature wear of that component, increasing undercarriage maintenance costs for the customer.

PEDJ1502