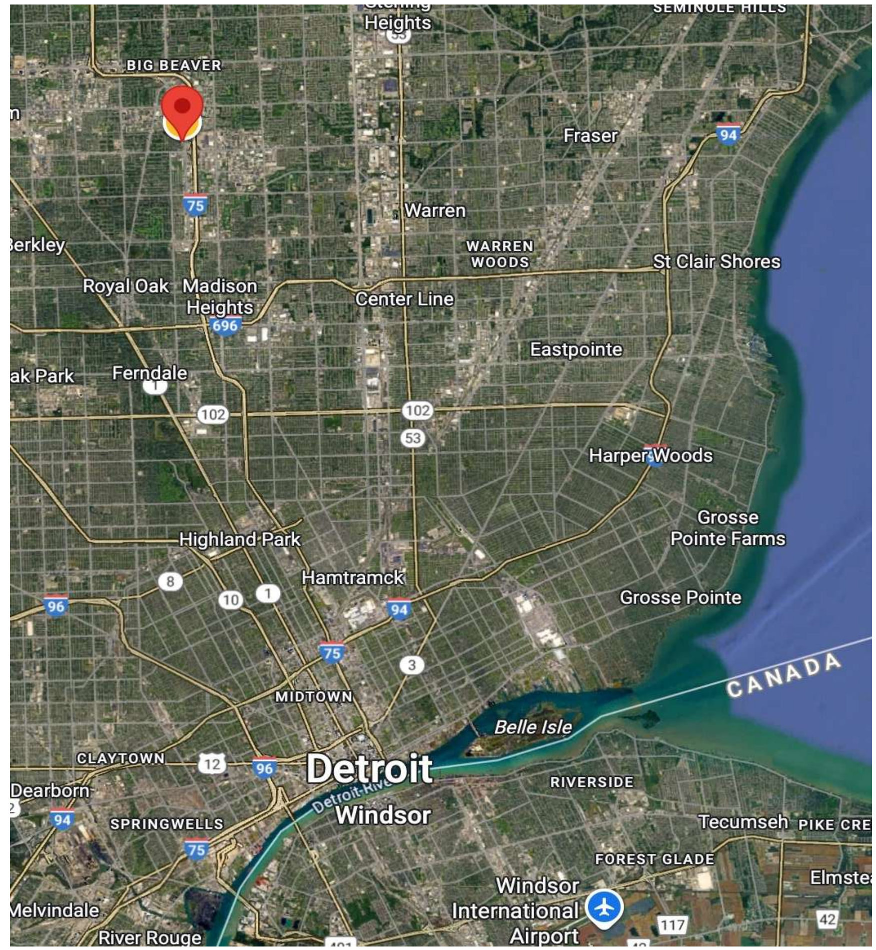

PURE FORGE®
BRAKES
PRODUCT INFORMATION
DISC PADs
WHELL BEARING
Soli Deo Gloria
All PureForge Brake Rotors include a 3 year / 100,000-Mile Limited Warranty
www.PUREFORGE.com

Designed, Developed, & Made in America



Headquarters / Production

501 Stephenson Highway

Troy, MI 48083

Brakes 101

Worn Brake Rotor

Worn Brake Pad

Cast Iron Rotors The surface is actively eroding, constantly changing (wear) with grooves forming and disappearing, high spots and low spots forming, and debris moving in the interface.

Converting Motion into Heat This happens when the brake pedal is applied, and the caliper applies force by clamping the pads to the rotors.

Cooling Without this thermal management or transfer of heat brake system components (rotos, pads, and fluids) would eventually fail.

Metallic Brake Pads Worn and altered during the braking process by the abrasion. Rotor debris particles (metals, metal oxides, metal carbides) can get embedded into the pad surface contributing to abrasive pad wear.

Atomic-Forged® Brake Rotors

This advanced process is protected by more than **45 patents** and is the foundation of the industry’s longest-lasting brake axle kits.

A proprietary surface treatment applied onto and into the working surface of brake rotors delivering unmatched durability and performance.

The Atomic-Forged treatment promotes adherent friction. Traditional braking systems rely on abrasive friction which accelerates wear.

PureForge® Brake Pads

Specifically formulated to work in synergy with our proprietary Atomic-Forged® Rotors.

During braking, when the brake pad and cast-iron rotor come into contact under high pressure and heat, a "third body transfer layer" forms between the two surfaces.

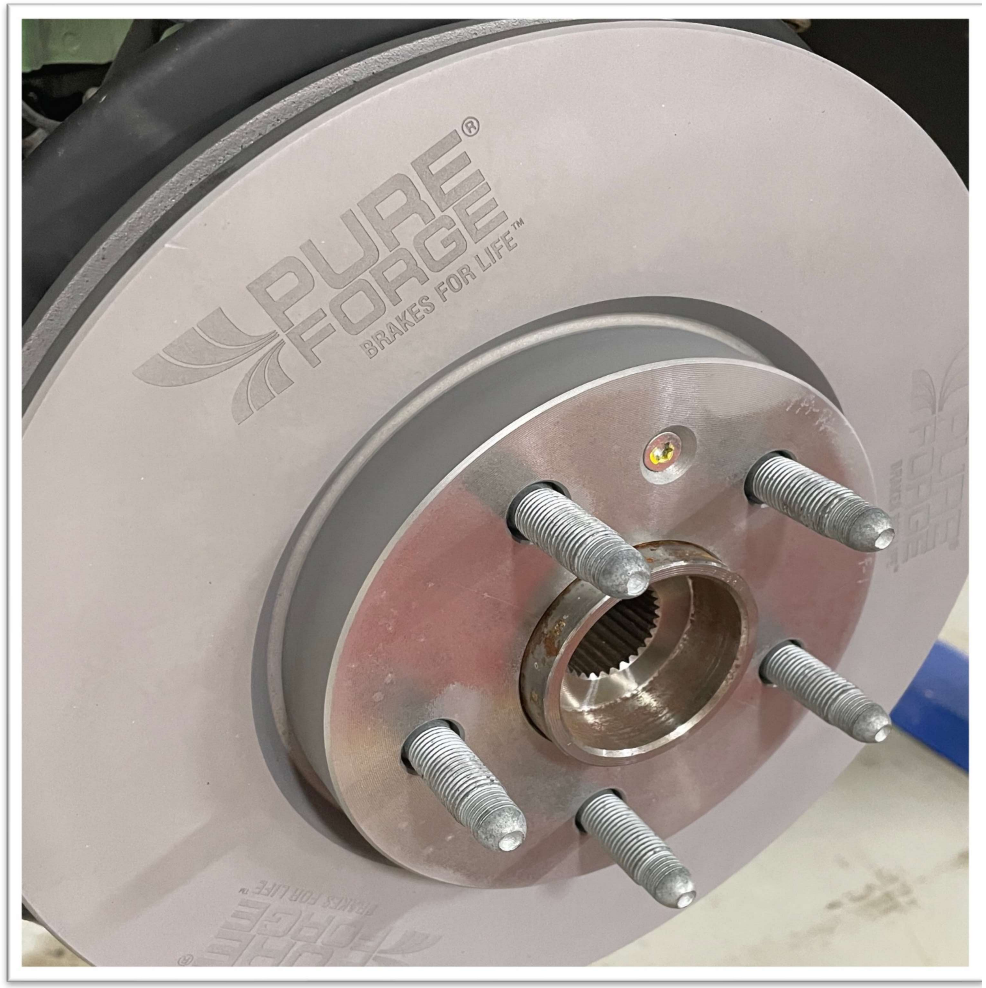
This layer acts like a cushion, made of fine particles from both the pad and rotor materials that have chemically reacted and fused to the rotor surface during the brake applications.

For fleet vehicles, this means longer-lasting components, fewer maintenance issues, and more reliable braking performance.

- **First Responders**
- **Law Enforcement Pursuit Vehicles**
- **Municipality and Commercial Fleets**

Atomic-Forged® Technology Advantages

- **Accommodates Expansion / Contraction**
  During thermal cycling with zero cracking or delamination of the treatment
- **Extreme Toughness**
  High fracture toughness
- **Unchanging Rotor Surface**
  Metallurgical and dimensional stability
- **High Temperature Conductivity**
  Efficient heat flow thermal management
- **No Rotor Dust**
  Atomic-Forged rotors gain mass, dimension, and do not wear
- **Low Pad Dust**
  PureForge Pads wear is significantly reduced
- **Noise Reduction**
  PureForge Brake Kits reduce brake squeal



Tested and Proven Advantages

Safety Attributes

- Reduced Brake Fade
- Better Thermal Management
- Stable Coefficient of Friction
- Disc Thickness Variation Control
- Quiet Operation
- Consistent Brake Pedal Response
- Pursuit Rated – Police Declaration of Conformity (pending)
- Reduced rotor/pad particle emission

Cost of Operation Benefits

- Longest Lasting Cast Iron Rotors
- Longer Lasting Brake Pads
- Clean Low Dust Brakes
- Affordable Replacement Pads
- Improved Corrosion Resistance on the Rub Track
- Reduced brake squeal
- More constant brake pedal feel
- Reduced rotor / pad particle emission