

# Tests Show PureForge® Brake Rotors Have Longer Life and Less Dust

Test data indicating longer rotor and pad life with less dust

PONTIAC, MICHIGAN, USA, June 27, 2023 /EINPresswire.com/ -- Recent PureForge® rotor test by LINK Engineering demonstrates the rotor longevity and durability built into every PureForge® brake rotor. [Results of grueling engineering testing show PureForge® technology reduces wear, extends rotor life, and substantially reduces dust.](#) Dust reduction results in cleaner wheels and has implications for both rotor wear and health.

PureForge contracted Link Engineering, a globally recognized brake testing firm to run industry-standard dynamometer tests. Key tests performed were:

- SAE J2707B Wear Test
- SAE J2521 Noise Test
- SAE J2928 Rotor Fatigue Test

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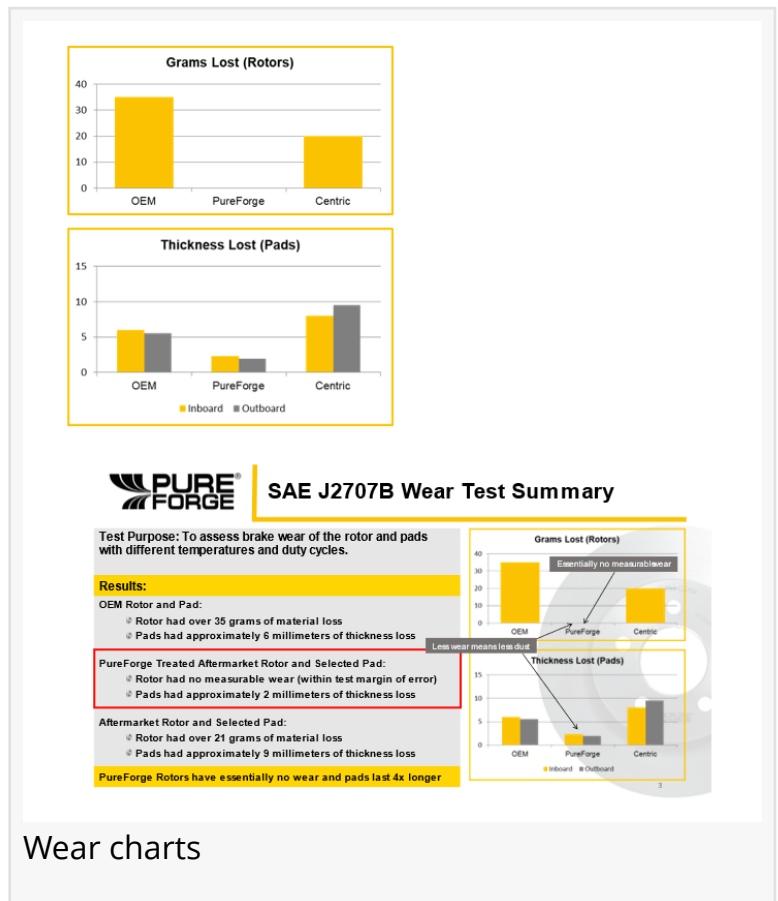
PureForge® technology reduces wear, extends rotor life, and substantially reduces dust.”

*Gordon Heidacker*

The test vehicle is a 2013 F-150. Each test was performed on three sets of brake rotors and pads for comparison:

- o OEM rotors and pads
- o Aftermarket rotors with PureForge® treatment using specifically selected pads.
- o Aftermarket rotors with the same specific selected pad
- Aftermarket rotors are economy gray cast.

The test data demonstrates that PureForge® treated rotors are quiet, durable, and exhibit little to no wear. It also shows a reduction in pad wear.



The results indicate that the lack of wear corresponds to reduced particle generation. Because most of the visible dust on wheels is from rotor debris means that PureForge rotors will provide the customer with cleaner wheels.

The results demonstrate that the PureForge® rotor operates well with no wear, there is VIRTUALLY NO BRAKE ROTOR DUST.

PureForge® rotors last longer than competitive brake rotors with low to no brake rotor dust.

Link testing wear Improvement charts upon request

The test data demonstrates that treated rotors exhibit no wear. It also shows a reduction in pad wear. PureForge rotor shows no rotor wear and low brake rotor dust.

PureForge technology is a pioneer in Physical Vapor Deposition ("PVD"). PureForge owns patents on Atomic-Forged® technology. This technology addresses many standard automotive industry issues, mainly brake wear, with the trademark Brakes for Life TM.

The PureForge® technology has five main advantages over standard wear braking systems.

1. Superior Braking Performance -- It has the potential to save lives with superior braking performance, validated with extensive independent testing and evaluation. (See Link research white paper)

2. Reduced Maintenance expenses -- It has the potential to save on customers' maintenance expenses by reducing brake-related costs per mile driven – savings realized upwards of 50% to 75% over standard wear brakes.

a. Keeping fleet vehicles on the road longer between service intervals, driving higher utilization

### SAE J2707B Wear Test Summary

Test Purpose: To assess brake wear of the rotor and pads with different temperatures and duty cycles.

**Results:**

**OEM Rotor and Pad:**

- ⦿ Rotor had over 35 grams of material loss
- ⦿ Pads had approximately 6 millimeters of thickness loss

**PureForge Treated Aftermarket Rotor and Selected Pad:**

- ⦿ Rotor had no measurable wear (within test margin of error)
- ⦿ Pads had approximately 2 millimeters of thickness loss

**Aftermarket Rotor and Selected Pad:**

- ⦿ Rotor had over 21 grams of material loss
- ⦿ Pads had approximately 9 millimeters of thickness loss

**PureForge Rotors have essentially no wear and pads last 4x longer**

### SAE J2521 Noise Test Summary

Test Purpose: To assess brake squeal noise in a variety of temperatures and duty cycles.

**Results:**

**OEM Rotor and Pad:**

- ⦿ No noise occurrences above 70 dB(A) through complete test

**PureForge Treated Aftermarket Rotor and Selected Pad :**

- ⦿ No noise occurrences above 70 dB(A) through complete test

**Aftermarket Rotor and Selected Pad :**

- ⦿ 226 noisy stops out of 2378 total stops
- ⦿ Noisiest stops were above 95 dB(A)
- ⦿ Dominate squeal frequency was approximately 9kHz
- ⦿ Less dominate squeal frequencies of 3-4kHz and 11-13kHz

**Summary: PureForge rotors are quiet**

### Wear and noise tests

### SAE J2928 Rotor Fatigue Test Summary

Test Purpose: To test for rotor cracking and structural failure after repeated thermal cycles

**Results:**

**OEM Rotor and Pad:**

- ⦿ No rotor cracking or structural issues

**PureForge Treated Aftermarket Rotor and Selected Pad :**

- ⦿ No rotor cracking or structural issues

**Aftermarket Rotor and Selected Pad :**

- ⦿ No rotor cracking or structural issues

**Summary: PureForge rotors provide safe and consistent stopping through the harshest usage with no signs of mechanical or thermal failure initiation**

### Summary of Testing Results

PureForge equaled or outperformed both OEM and Centric rotors in all 5 tests

	PureForge	OEM	Centric
⦿ SAE J2707B Wear Test	⦿ Rotors: no wear ⦿ Pads: 2mm wear	⦿ Rotors: 35g wear ⦿ Pads: 6mm wear	⦿ Rotors: 20g wear ⦿ Pads: 8.5mm wear
⦿ SAE J2521 Noise Test	⦿ No noise	⦿ No noise	⦿ Significant noise
⦿ SAE J2928 Rotor Fatigue Test	⦿ No structural issues	⦿ No structural issues	⦿ No structural issues

**PureForge is the Super Premium Rotor**

Fatigue test and summary

models for businesses

3. Brake Dust Reduction -- It can reduce environmentally harmful carcinogenic brake dust emissions.
4. Light-Weighting--- Because of the superior braking technology, PureForge® can reduce unsprung weight at the four corners of the vehicle. This lightweighting can also protect the planet by reducing landfill volume.
5. Branding – because of our wear-resistant processes, we can place the logos of the car brand or manufacturer on all brake rotors, providing additional brand recognition.

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