

Comparison of metallurgical and corrosion test results obtained on three materials treated by the Nitreg®-ONC process.

| STEEL GRADE | US: | 1006 | 1144 | 4140 |
|---|---------|------|-----------------------------|---------|
| | Europe: | C7D | Resulfurized 0.44 carbon | 42CrMo4 |
| White Layer Thickness (µm): | | 17 | 10 | 12.5 |
| Oxide Layer Thickness (µm): | | 2.5 | 1 | 2 |
| Time in salt-spray to first corrosion spot (hours): | | 399 | 483 | 239 |

Corrosion resistance compared on a brake piston



The brake piston on the right treated with Nitreg®-ONC showed its 1st corrosion spot after 400 hours in a salt spray test. The brake piston on the left treated with a competitive technology had 60% of its surface corroded after 400 hours.