

Soot in tail pipe



[Dave Ricks](#) 5 posts since Sep 24, 2015

Soot in tail pipe Aug 31, 2020 3:16 PM

I have Code 520349 FMI 14 DPF Filtration Efficiency Low. I have also got soot in the tail pipe off the 1box. I pulled the filters and theres no soot on the outlet of the DPF filters. Does that mean I have an internally cracked 1box between the DOC and the SCR?



[Nick Guraluick](#) 19 posts since Mar 14, 2016

Re: Soot in tail pipe Aug 31, 2020 3:46 PM

whats your serial number? I've had a couple units in our shop for the same codes. one was repaired with a new set of filters (no sign of the old ones being failed) and the other unit is an on going issue.



[Dave Ricks](#) 5 posts since Sep 24, 2015

Re: Soot in tail pipe Aug 31, 2020 4:31 PM

HV4600



[Steve Reppard](#) 87 posts since Jun 29, 2020

Re: Soot in tail pipe Sep 3, 2020 12:51 PM

Filters have failed, sometimes they will NOT show signs of damage or visible soot trails on outlet of substrate. Replace both dpf's and make sure to run regen on soot sensor/wipe soot from sensor.

A crack in internal baffles of 1-box will cause other codes including nox conversion coding, so I would rule that out in your case. I normally run through atd checklist just to make sure no upstream issues are present.



[Robert Cadell Jr](#) 2,590 posts since Nov 9, 2014

Re: Soot in tail pipe Sep 1, 2020 2:14 PM

I agree with Steve and yes you have a internally broken one box, the soot and heat is bypassing the system, check underneath the one box also if you have soot tracers on the bottom you have a cracked weld at/around the DOC