

cummins 3382 fault



Daniel English 6 posts since Apr 19, 2018

cummins 3382 fault Feb 5, 2021 4:57 PM



cummins isx esn- 79900989 in a freightlinerr Cascadia vin-Hx1238.

this unit came in for the engine being hydro-locked. at that time we replaced the turbo/ vgt,egr cooler, doc,dpf,scr. it kept coming back for a 3383 low egr flow fault. it would only throw the fault when under a load . we ran through guidnaz a few times it got an egr valve and a few egr diff pressure sensors. escalated it to level 3. we rplaced the ecm, engine harness, throttle intake valve, and another egr cooler, they sent us a remote data link so they could monitor the data and run tests . they ran a special vgt/egr test and it failed twice.

cummins 3382 fault

I removed the vgt actuator to find a crack on the sector gear.see images . I hope this helps someone this truck has been here on and off for months



[Talbert Simonian](#) 1,880 posts since Nov 21, 2014

Re: cummins 3382 fault Feb 5, 2021 6:01 PM

Daniel what a great find. Hopefully this will help others out there that have the crazy comebacks. A crack on the sector who would have thought of that happening.



[Daniel English](#) 6 posts since Apr 19, 2018

Re: cummins 3382 fault Feb 5, 2021 10:57 PM

until now I have never seen it. To be honest I never checked when replacing the turbo . But I will from now on



[Kyle Siebert](#) 4,151 posts since Nov 14, 2014

Re: cummins 3382 fault Feb 5, 2021 11:15 PM

cummins 3382 fault

Ha! The new turbo sector gear had a crack in it! Thats frustrating! Thanks for sharing. I have never checked for that. Bookmarked this post.



[David Wesbecher](#) *1 posts since Oct 30, 2018*

Re: cummins 3382 fault Feb 6, 2021 10:45 PM

Have seen it at Cummins training but never in the field, that's disappointing that it was the new turbo.



[Chaz Trimble](#) *1,370 posts since Feb 2, 2015*

Re: cummins 3382 fault Feb 6, 2021 11:24 PM

I have seen it, this occurs if the installation and calibration procedure is ran in the wrong order or if the sector gear is in the incorrect position when the actuator is installed and the sector gear cracks during the calibration of the actuator. One would think the calibration would fail but I've seen it pass. One would also think that it would've been caught when it was assembled at the factory. Great find.