

New Cascadia Noise in Cab @ certain RPMs



[Ryan Huibers](#) 6 posts since Jul 13, 2020

New Cascadia Noise in Cab @ certain RPMs Nov 11, 2020 3:41 PM

When driving the unit, after unit warms up, Loud noise can be heard at the front wall area. Noise generally in center of dash. Sounds almost like a few things vibrating against one another. More significant during higher gears (9-12) at RPM range between 1200-1500 or when cruising at highway speeds with loaded trailer. This unit has a DD with DT12 transmission. We have removed quite a bit of the cab pieces already (ie. fenders, visor, wiper cowling etc) with no success @ resolving issues. Any other people come across this?

Noise heard in video between the 3-5 second mark

- [IMG_0013.MOV](#) 16.3 MB



[Michael Palumbo](#) 1,534 posts since Nov 13, 2014

Re: New Cascadia Noise in Cab @ certain RPMs Nov 11, 2020 11:42 PM

Never heard that before. How many miles/km on unit. Any recent repair history.



[Ryan Huibers](#) 6 posts since Jul 13, 2020

Re: New Cascadia Noise in Cab @ certain RPMs Nov 12, 2020 12:25 PM

Michael, there is no recent repair history here @ our shop. Current mileage is 504,150 km



[Jon Cecil](#) 901 posts since Nov 25, 2014

Re: New Cascadia Noise in Cab @ certain RPMs Nov 12, 2020 4:58 AM

Is there a vibration at all with the noise?



[Ryan Huibers](#) 6 posts since Jul 13, 2020

Re: New Cascadia Noise in Cab @ certain RPMs Nov 12, 2020 12:26 PM

Jon, There is no vibration associated with the noise.



[Jon Cecil](#) 901 posts since Nov 25, 2014

Re: New Cascadia Noise in Cab @ certain RPMs Nov 12, 2020 1:18 PM

Have you data logged during the test drive with DiagnosticLink? Could you post it on here?

Has the exhaust been removed from the one box to verify it's not coming from there?

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[Ryan Huibers](#) 6 posts since Jul 13, 2020

Re: New Cascadia Noise in Cab @ certain RPMs Nov 12, 2020 2:58 PM

We have not done any data logging as we don't believe it is related to any gear train/transmission noise. We have isolated & inspected one box/DPFs and issue still present



[Jon Cecil](#) 901 posts since Nov 25, 2014

Re: New Cascadia Noise in Cab @ certain RPMs Nov 12, 2020 3:12 PM

The problem is not there when its cold but only when its warmed up? It sounds engine related to me. I would data log the test drive. I've had issues with asymmetric injection but usually causes a vibration and at lower rpms than what you are describing. If you data log the event, monitor cylinder speed increase values in the chart. They should be all relatively the same. I asymmetric injection is what you are experiencing though.



[James Burton](#) 2 posts since Nov 24, 2014

Re: New Cascadia Noise in Cab @ certain RPMs Nov 12, 2020 8:10 PM

Hey there

I am involved with this issue and have uploaded a copy of the logged event. Have a look and see what you think if you get a chance. Not totally up to speed with acceptable values when it comes to cylinder speed increase.

- [\(3AKJHPDV6KSKC4248\) 11-12-2020 1350.16.DrumrollLog](#) 1.1 MB



[Jon Cecil](#) 901 posts since Nov 25, 2014

Re: New Cascadia Noise in Cab @ certain RPMs Nov 12, 2020 11:36 PM

Doesn't appear to be the issue with asymmetric injection. Looking at the log file, all cylinder speed increase values are around the same. The unit is in thermomanagement status 3 but it is also in DPF zone 1. This is normal to see. Have the motor mounts been inspected?



[Scott Trippel](#) 4,003 posts since Dec 13, 2014

Re: New Cascadia Noise in Cab @ certain RPMs Nov 12, 2020 5:50 PM

Can you post a video with a good sound byte of the noise?



[Michael Palumbo](#) 1,534 posts since Nov 13, 2014

Re: New Cascadia Noise in Cab @ certain RPMs Nov 14, 2020 5:35 PM

If you think it might be inside the dash, you might consider removing the dash cap. There is a 3 minute video on ARC under AfterMarketTV.

What is the last 6 of the VIN.

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[Ryan Huibers](#) 6 posts since Jul 13, 2020

Re: New Cascadia Noise in Cab @ certain RPMs Nov 16, 2020 12:28 PM

KC4248 is the last 6. I will have to check out that video that you mentioned



[Ryan Huibers](#) 6 posts since Jul 13, 2020

Re: New Cascadia Noise in Cab @ certain RPMs Dec 17, 2020 5:58 PM

Problem has been resolved. Turns out it was the front HVAC cassette vibrating even though it was secure & did not appear to be touching any part of the cab.



[Michael Palumbo](#) 1,534 posts since Nov 13, 2014

Re: New Cascadia Noise in Cab @ certain RPMs Dec 17, 2020 9:15 PM

Great job finding it!