

DD ENGINES FAN RUNNING MORE IN THE COLD



[Kelowna Service](#) 260 posts since Nov 29, 2014

DD ENGINES FAN RUNNING MORE IN THE COLD Dec 22, 2016 11:55 PM

WE HAVE ABOUT 7 UNITS HERE IN BC WHERE WHEN THE TEMP DROPS BELOW FREEZING THE ENGINE FANS RUN ALL THE TIME. OR SO THE DRIVERS SAY. EITHER WAY, THEY ARE RUNNING ALOT MORE THAN NORMAL. ANYONE OUT THERE SEEN THIS WITH THE TEMPS DROPPING BELOW FREEZING ALL OVER CANADA. THANKS ALOT

ADAM SCOTT

WESTERN STAR KELOWNA BC



[Kyle Siebert](#) 4,003 posts since Nov 14, 2014

Re: DD ENGINES FAN RUNNING MORE IN THE COLD Dec 23, 2016 1:03 AM

Maybe they have the defroster on and the A/C fan switch keeps activating? What EPA or GHG level are these engines? Are they all the same trucks? If so supply us with one of the units vin number, only need the last 6 digits.



[Kelowna Service](#) 260 posts since Nov 29, 2014

Re: DD ENGINES FAN RUNNING MORE IN THE COLD Dec 23, 2016 1:36 AM

THESE ARE ALL DIFF EPA, MOSTLY GHG14 BUT ONE IS A 2012. WE HAVE EXPLAINED THE DEFROST TO THEM ALL BUT NOTHING HAS HELPED SO FAR



[Kyle Siebert](#) 4,003 posts since Nov 14, 2014

Re: DD ENGINES FAN RUNNING MORE IN THE COLD Dec 23, 2016 1:55 AM

Do they have winter fronts on them? There is a bulletin about winter fronts. What ambient temps to use them and that they shouldn't cover something like over 60% of the grill.



[Pierre Beauchesne](#) 292 posts since Nov 11, 2014

Re: DD ENGINES FAN RUNNING MORE IN THE COLD Dec 23, 2016 1:35 PM

letter 14TS11 talks about winter front affecting fan running for nothing, including part of letter.

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Use of a winter front on a DD platform engine, particularly those that are fully closed, will cause performance issues and is not recommended on DD Platform engines. Winter fronts can result in the following:

- Excessive fan run time due to higher Charge Air Cooler (CAC) outlet temperatures resulting from low air flow through the CAC
- Increased fuel consumption
- Failure of the DEF system heaters to turn on when needed due to incorrect temperature calculations resulting in fault codes, poor performance of the Aftertreatment System, and power reduction
- Failure of critical emission equipment that will result in vehicle speed inducement to a maximum of 5 mph



[Allan Wilson](#) 20 posts since Sep 25, 2016

Re: DD ENGINES FAN RUNNING MORE IN THE COLD Dec 31, 2016 9:34 PM

My 2016 Cascadia with a DD16 is doing this. As soon as the temperatures went below freezing, the fan comes on many times a day and runs for about four minutes.

No winter front installed, defrost not activated. In late October we had above zero temps for a few weeks and the fan never came on except as expected when ever it actually did get hot. But it shut off as soon as the temp was low enough as usual.

Lately I have noticed that it is also coming on while running at highway speeds.

Today I noticed what may be an A/C leak where the lines enter the front condenser, but I haven't had a chance to confirm the A/C system pressures.



[Kyle Siebert](#) 4,003 posts since Nov 14, 2014

Re: DD ENGINES FAN RUNNING MORE IN THE COLD Dec 31, 2016 10:41 PM

If it was me, id think to check for a drifted temp sensor possibly in CAC outlet or ambient, but id check all temp sensors after a cold soak. The other thing id do is update all PTECUs. Also make sure cabin can ECUs are comparable per 54- bulletin in service pro



[Scott Trippel](#) 3,956 posts since Dec 13, 2014

Re: DD ENGINES FAN RUNNING MORE IN THE COLD Jan 3, 2017 3:31 PM

We see this all the time.

The fan comes on to check the Ambient air temp.

Typically what happens is:

On the highway all is ok, truck comes to town and stops at a light. Truck leaves light fan engages. Because the truck stopped no ram air through rad and CAC. The ambient temp is calculated but turbo inlet temp and CAC icooler out temp. The fan increases air flow and the calculation begins. The fan stops when the temp drop stabilizes.

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What has happened is when stopped the under hood temp has increased the CAC and turbo inlet temps. The calculation is required to operate the DEF line heaters.

This was a software fix.

We had trucks freeze DEF lines before because the fan was not engaging to check the ambient temp. After the software fix a complaint of fan on started.

Usually the fan needs to run 5 to 10 min.



[Allan Wilson](#) 20 posts since Sep 25, 2016

Re: DD ENGINES FAN RUNNING MORE IN THE COLD Jan 3, 2017 4:49 PM

That is exactly the behaviour I am experiencing. Thank-you for the info.



[Jason Alexander](#) 7 posts since Mar 10, 2020

Re: DD ENGINES FAN RUNNING MORE IN THE COLD Oct 1, 2020 5:18 PM

We are experiencing the same complaints from drivers here in Alaska.



[Jason Alexander](#) 7 posts since Mar 10, 2020

Re: DD ENGINES FAN RUNNING MORE IN THE COLD Oct 1, 2020 5:19 PM

The fan always operates normal when the truck is brought into the shop for service.