

Fault Code 520342-17



[Dave Dobraski](#) 26 posts since Sep 17, 2015

Fault Code 520342-17 May 15, 2020 7:43 PM

Have a 2019 Western Star with a DD13 and have code 520342-17. There is no trouble shooting in Diagnostic link or in PSL. Set a request in on it and was instructed to do three ADS self check s and send in log file. Has anyone else run into this code and if so where did you find the trouble shooting. Thanks in advance



[Michael Palumbo](#) 1,584 posts since Nov 13, 2014

Re: Fault Code 520342-17 May 15, 2020 10:27 PM

[Kyle Siebert](#) mentioned 520342-17 here The specified item was not found.



Kyle Siebert 

Apr 8, 2020 6:46 PM

520342 fmi 17

DEF system rationality DEF pump speed high

GHG17 DD13

Next Gen P4 pre JYST Cascadia

KL6680

Would be nice to know verification for this

They might need your log file to develop trouble shooting.

With nothing else to go on other than "DEF pump speed high", I would think the pump is sucking in air upstream or leaking DEF down stream. How is your DEF pressure?



[Kyle Siebert](#) 4,101 posts since Nov 14, 2014

Re: Fault Code 520342-17 May 17, 2020 1:40 AM

Fault Code 520342-17

This one we had come back 3 times. With CSC support. First time got a RS supply kit (to replace all DEF filters and screens), second time flashed software of PTECUs and third time replaced DEF pump.

But there wasn't any troubleshooting, I think we just went off what tech support was telling us the whole time.



Michael Palumbo 1,584 posts since Nov 13, 2014

Re: Fault Code 520342-17 May 17, 2020 2:01 PM

Kyle Siebert If you have time look at this thread. The specified item was not found.

Yes it is a different code and different emission level.

What I'm referring to is the description similarity.

Description	This Code Sets When the Diesel Exhaust Fluid (DEF) Pump Speed is Higher than Normal For a Given DEF Pressure
-------------	--

FYI...The code 4374/0 on this unit was caused by a cracked (faulty) DEF tank header, as it was sucking air. DEF header was replaced, code was cleared and the truck was back on the road.



Dave Dobraski 26 posts since Sep 17, 2015

Re: Fault Code 520342-17 May 18, 2020 11:36 AM

This unit came in 2 days prior to this and had a different code and trouble shooting led us to install the def pump kit. Started a case file and had to log three ADS self test and send in then was notified to replace def pump and release truck. I did ask in the email how do we go about trouble shooting this and di not get an answer



Robby Dabernig 122 posts since Nov 14, 2014

Re: Fault Code 520342-17 May 19, 2020 10:36 AM

Had one come in with same issue. Couldn't find any t/s on this code. Called CSC and if I remember correctly, it was if the pump cannot get to 140 psi, they had us put a dosing valve on it. And that solved the issue. I'm assuming it was something with the pressure sensor.



Brandon Crouse 9 posts since Sep 12, 2017

Re: Fault Code 520342-17 Sep 2, 2020 2:46 PM

Fault Code 520342-17

I had a New Cascadia with a DD15 today with the same code. There is still not any published t/s for code that I have found. Unit is HU5556. Def pump psi was 145 with 2500 rpm pump speed. Installed mechanical gauge in line with dosing unit. Mechanical gauge is reading the same as the pressure sensor. I found that as I ran the ads self check a few times the def pump vents were starting to show signs of moisture. Replaced def pump and code went inactive.



[Mark Walstead](#) 27 posts since Apr 30, 2018

Re: Fault Code 520342-17 Dec 22, 2020 11:12 PM

VIN- LR9212

CSC# 6871812

miles- 154067

Original complaint was SPN 3510/3 for ACM sensor supply 2 short to battery. This is advanced troubleshooting. I followed it out to replace ACM. I went through all the programming, etc. put it outside in regen and SPN 4334/4 for DEF dosing valve failed low. Followed this out to replace DEF dosing unit. Put it outside again for regen. SPN 3510/3 came back active. Opened CSC case and they told me to replace the ACM 120 pin harness and perform SCR-ADS test. After I replaced the the 120 pin harness, all codes were inactive. GREAT!!!

I did the SCR-ADS test and that is when SPN 520342/17 came active. I am not able to clear it, the CEL and MIL are on. As everybody said, this code is not in MD or HD GHG17 troubleshooting, not in DL, not in PSL. I replied back to CSC and was told to check the DEF intake side for restrictions and if OK, replace the DEF pump. Straight up, no troubleshooting other than check for suction restrictions. I replaced the DEF pump complete, ran SCR-ADS test and code went "previously active" and I was able to clear the MIL.

I would say I was lucky to already have a CSC case open with all of the other stuff going on. I guess if I see this again, I am going to get the blessing from CSC, but the DEF pump made the repair

Fault Code 520342-17

DiagnosticLink - Professional - Offline ((3AKJHHD6LSLR9212) 12-22-2020 1613.11)

File Edit View Log Parameters Actions Tools Help

Full Screen

Find

Identification

Fault Codes

Troubleshooting

Instrumentation

Service Routines

I/O Control

Parameters

Logged Connections (paused)

- Common Powertrain Contr...
CPC302T: Online
- Motor Control Module 2.1
MCM21T: Online
- Transmission Control Mod...
TCM01T: Online
- Antilock Braking System
ABS02T: Online
- Integrated Predictive Powe...
IPPC01T: Online
- Steering Angle Sensor
SAS01T: Online
- Instrument Cluster

Fault Codes 2020 Freightliner New Cascadia 126 Sleeper Cab 6 x 4 Truck-Tractor
VIN: 3AKJHHD6LSLR9212 Transmission: DT12-DT12 DA
ESN: 47291050691201 Engine: DDEC16-DD15

All Faults Fault History Test Results Virtual Technician Data

Description	Number	Mode	Status	Troubleshooting Type
[UDS-1] MCM21T - Motor Control Module 2.1				
DEF inducement DEF lamp active	521049	31	previously confirmed, previously active	Advanced, Traditional
DEF inducement CEL lamp active	521052	31	previously confirmed, previously active	Advanced, Traditional
[UDS-11] ABS02T - Antilock Braking System				
SPN/FMI=1807/8 Steering Wheel Angle / abnormal frequency, pulse ...	1807	8	not active	Refer to OEM
[UDS-37] CGW04T - Central Gateway				
Lost communication with IPPC	524017	31	previously active	Traditional
[UDS-61] ACM21T - Aftertreatment Control Module 2.1				
DEF System Rationality DEF Pump Speed High	520342	17	confirmed, active, permanent	Refer to PSL

Clear All Faults Clear Fault

Troubleshoot Symptom... Troubleshoot Fault...

Log time: 12/22/2020 4:14:58 PM

Type here to search

6:07 PM 12/22/2020

Fault Code 520342-17

SCR ADS Self-check

Parameter	Value	Unit
ACM Vehicle speed	0.0	mph
Engine speed	0	rpm
ADS Pump Speed	0.0	rpm
ADS DEF Pressure 2	32.02	psi
ADS priming request	0	
ADS dosing valve state	off/ disabled/ false	

Routine Results

Function finished; No failure found

Time	Label
17:57:50.1	Started
17:57:51.3	Actuator check is running
17:57:55.6	Pressure build up active
17:58:14.3	Settling is awaited
17:58:24.1	Plausibility Check is running
17:58:27.5	Function finished; No failure found
17:58:27.6	Stopped

Clear SCR ADS Self-check: Procedure can start Start Troubleshoot Sys



[Joshua Flatley](#) 27 posts since Aug 25, 2015

Re: Fault Code 520342-17 Dec 23, 2020 3:34 PM

Just pulled in a unit with same code. Driver stated he had ran unit almost completely dry of def. Unit threw closed loop and conversion efficiency codes not long after this code. Since I did not find anything on the original code I am treating it the same as 4363/17 nox conversion efficiency . The trouble shooting for it runs through def quantity testing also so if the pump does have a problem it should show up during the trouble shooting.



[AJ Masson](#) 4 posts since Jun 26, 2020

Re: Fault Code 520342-17 Jan 14, 2021 1:02 PM

Fault Code 520342-17

I had this code happen to me yesterday. Had no other related emissions codes at all only this 520342/17.

Called CSC they told me to check suction side for any leaks/blockages, if no leaks replace DEF Pump run def pump prime routine and x3 ads self checks, if all checks pass release truck.

It is strange, when I run the ads self checks before I replaced the pump pressures were 135-145psi and 1100-1300rpm during plausibility check? When I ran the tests after with the new pump the graphs were identical.

Code only seemed to start happening after recall D20M8 was released (I've had this code x3 on x3 different trucks all happened not long after completing that recall



[Scott Trippel](#) 4,057 posts since Dec 13, 2014

Re: Fault Code 520342-17 Jan 14, 2021 6:54 PM

We get this code weekly, CSC says to replace DEF pump



[Scott Trippel](#) 4,057 posts since Dec 13, 2014

Re: Fault Code 520342-17 Jan 14, 2021 6:54 PM

hard to believe this has been happening for 8 months and no changed to the manuals yet