

# epa10 low def pressure

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[Donald Sullivan](#) 42 posts since Nov 14, 2017

**epa10 low def pressure** Oct 20, 2020 3:29 PM

last 6 of vin BH8440. truck came in with check engine light. spn 4334/fmi 7 def pressure low. perform trouble shooting. trouble shooting lead me to checking def header for restrictions. none found. done replace def metering unit ( not reman ) plv, def pump, and acm. def pressure will get to 30 psi. which I know is low. if not mistaking def pressure should get up to 72 psi. def air pressure is around 24 psi which from what I found is normal. check all air lines for restrictions. none found. when shop air supply to def pump, def pressure is 70. check air pressure going to plv and pressure is above 100 psi when code is active. check circuit to plv. pin one ( signal ) at 2.5 volt and pin 2 ( power ) got battery voltage ( 12.4 ) check pins from acm. measurement are the same. ohm circuit for def pressure sensor on harness, reading was 2.4k ohms. connected the circuit and check for voltage. reading was 4.9. check restrictions in def line from def pump to metering unit. no restriction. confirm this with def quantity test. def produce was 120 ml. also check air pressure from plv to def pump. air pressure reads 80 psi. after replacing metering unit, plv, def pump, and acm im not understanding why def pressure still not reading correctly. has any one ran into this problem. need help. done summited a ticket to Detroit, no solutions yet.



[Scott Trippel](#) 3,958 posts since Dec 13, 2014

**Re: epa10 low def pressure** Oct 20, 2020 3:50 PM

What is the DEF pressure compared to baro pressure key on engine off?



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**Re: epa10 low def pressure** Oct 20, 2020 3:58 PM

def pressure is 15.03 and baro pressure is 14.68 key on engine off



[Robert Cadell Jr](#) 2,643 posts since Nov 9, 2014

**Re: epa10 low def pressure** Oct 20, 2020 4:02 PM

Do you have oil in the PLV, theres air lines attached to it, the oil will be seen on the outlet side of the valve, is the plunger in place ? if yes to the oil in the air system, please check the air drier cartridge and the compressor for passing oil, my DSM called it misting, the oil will start to pool or build up when it cools off.

If the plunger is pushed out of the PLV, the PLV is bad. And check the doser unit for dried DEF in the metering unit.

Thanks

epa10 low def pressure

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Good Hunting – You'll find your problem



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**Re: epa10 low def pressure** Oct 20, 2020 4:06 PM

no contamination in air system. metering unit was replace ( replace unit with a none reman unit ) along with plv, def pump, and acm. code still active.



[Robert Cadell Jr](#) 2,643 posts since Nov 9, 2014

**Re: epa10 low def pressure** Oct 20, 2020 4:10 PM

Have you checked the air pressure in the Bladder of the DEF pump? What we used to do was use a tire inflator, pressure I believe is 45 psi, we went to 60 psi, by the time you remove the tool, it should be at 45 ish, DON'T OVER inflate it.

Actually bought a digital tire inflator for this, and have you checked the DEF filter in the pump and the tank.

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**Re: epa10 low def pressure** Oct 20, 2020 4:16 PM

yes, after doing 2 regen and finding def pressure low check bladder and bladder was at 45 psi. new pump was installed with new filter.



[Robert Cadell Jr](#) 2,643 posts since Nov 9, 2014

**Re: epa10 low def pressure** Oct 20, 2020 4:42 PM

Could be a bad reman metering unit,, double check your wiring as Scott said. I have seen bad reman valves what tge air pressure going to the plv should be 68 psi to 72 psi on sensor reading

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**Re: epa10 low def pressure** Oct 20, 2020 4:44 PM

metering unit is not reman.



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**Re: epa10 low def pressure** Oct 20, 2020 4:43 PM

perform trouble shooting again. got to step 14, disconnected def return line and perform scr air pressure test. def fluid was discharge from pump. this pump was a new pump that was replace. defective part. gonna replace pump. when done will give update.



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

**Re: epa10 low def pressure** Oct 20, 2020 5:28 PM

I have had switching valves fail almost immediately after install on air'd dosing systems. phsically clean all lines and perform the switching valve testing to see if def is bypassing at all  
Adam



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**Re: epa10 low def pressure** Oct 20, 2020 5:50 PM

after finding the replaced def pump being defective and installed new pump, def pressure is now up to 72 psi.



[Robert Cadell Jr](#) 2,643 posts since Nov 9, 2014

**Re: epa10 low def pressure** Oct 20, 2020 5:54 PM

Thanks for the reply, was wanting to make sure we ruled out some overlooked items.

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