

MBE900 Excessive Coolant Pressure



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

MBE900 Excessive Coolant Pressure Feb 10, 2021 10:13 PM

Sterling 2005 mbe900

s/n u09242

Head gasket was replaced because it was leaking. Driver came back because it was going thru coolant. Hold it at 1500 rpms for 15 min and coolant pressure gets to 21 psi at the reservoir.

Replaced EGR cooler, Air compressor was "bypassed", water pump recently replaced. Head was magnafluxed. Supposedly no pneumatic coolant controls. Fluid tester was used twice and first time showed no combustion gases but second time it showed a color change.

High Coolant Pressure.

I'd like to get a solid answer on compression gasses. And how the air compressor was bypassed. Could be a possible coolant overboiling somehow.

Probably a good candidate to bring to our shop. Its a customer over the phone.



[Steve Reppard](#) 168 posts since Jun 29, 2020

Re: MBE900 Excessive Coolant Pressure Feb 11, 2021 11:40 AM

Kyle, I can tell you that the combustion gas tester ca negative false positives and DD no longer accepts this a testing procedure. I can also state that I have never had a mbe 900 put combustion gasses into cooling system from failed headgasket (I know it is possible though). I have seen cooler fail but they usually just burn coolant and drip out of egr hotpipe connections.



[Jean luc Collette](#) 32 posts since Dec 14, 2016

Re: MBE900 Excessive Coolant Pressure Feb 11, 2021 3:34 PM

It may sound extreme but could it be a cracked block...? Seen it once before.



[Scott Trippel](#) 4,094 posts since Dec 13, 2014

Re: MBE900 Excessive Coolant Pressure Feb 11, 2021 8:09 PM

Have you done a sensor sanity check? Cold soak? Does the coolant temp read correctly?

MBE900 Excessive Coolant Pressure

About 10 years ago we had an MBE 4000, complaint always was repair for coolant pressure high keeps blowing out coolant. We would test for combustion gas or compressed air in system and never found anything, customer was very mad and had Daimler involved.

I got the fun job and called the customer asked basic question like how do I recreate this. The said every time I climb a hill under heavy load I get to the top and steam and coolant are coming out of the expansion tank. What is your coolant temp, I asked? 185 he said. Do you ever notice the engine fan come on? No he said.

I found at ambient temp in the shop 17C, the coolant temp was 27C. My thought was that the sensor is drifted low, I replace the sensor and it never had a complaint again

Just my 2 cents



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

Re: MBE900 Excessive Coolant Pressure Feb 11, 2021 9:17 PM

I was wondering that same thing. Drifted temp sensor and coolant overboils. Because the engine fan never kicked on when it was supposed to. Not throwing codes because it thinks



[Scott Trippel](#) 4,094 posts since Dec 13, 2014

Re: MBE900 Excessive Coolant Pressure Feb 11, 2021 11:35 PM

We had no codes either. Just a complaint of coolant pressuring up
The real issue is it was overheating
cause was temp sensor drifted low



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

Re: MBE900 Excessive Coolant Pressure Feb 11, 2021 11:48 PM

Yeah, but they didn't know it was overheating, in your case. They just thought the system was overpressurizing. I agree its a great thing to consider.



[Robert Cadell Jr](#) 2,837 posts since Nov 9, 2014

Re: MBE900 Excessive Coolant Pressure Feb 11, 2021 8:27 PM

Were the correct head gaskets used ? There was a update to the head gaskets and I think about that time 2006 ish the heads were updated and you HAD to use the updated head gaskets. Has anyone checked the pressure rating on the surge tank cap?

CAP-RADIATOR,16 PSI per parts pro



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

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Re: MBE900 Excessive Coolant Pressure Feb 11, 2021 9:25 PM

Yes, surge tank cap has been tested and passed. It was claimed the tech has done a lot of MBE900 motor rebuilds and is used to the bulletins. Interesting thing to pass on though. I know there was a bulletin about the 4000's had some kind of weird compatibility and head gasket incompatibility would cause it to leak coolant.



[Robert Cadell Jr](#) 2,837 posts since Nov 9, 2014

Re: MBE900 Excessive Coolant Pressure Feb 11, 2021 9:30 PM

The comment on the head gasket is my fault I confused the 4000 with this issue. My apologies

Rob "Doc" Cadell

DTNA Master Technician/Elgin Lead Tech

TransChicago Truck Group BFWD

Shorewood IL 60404

803 917 5397 Cell

Good Hunting - you'll find your issue



[Robert Cadell Jr](#) 2,837 posts since Nov 9, 2014

Re: MBE900 Excessive Coolant Pressure Feb 11, 2021 9:40 PM

Is the vent line off the surge tank clear and is the port open ?

Rob "Doc" Cadell

DTNA Master Technician/Elgin Lead Tech

TransChicago Truck Group BFWD

Shorewood IL 60404

803 917 5397 Cell

Good Hunting - you'll find your issue