

Excessive smoke , No power



[Stan Tharp](#) 15 posts since Jun 30, 2015

Excessive smoke , No power Oct 21, 2020 7:25 PM

VIN. N87123 ESN :46093300784574

Truck was towed in, came in with complaint of no power , excessive smoke, still has same problem after performing the following,

REMOVED CAC HOSE. REMOVED ALTERNATOR. UN BOLTED AC COMPRESSOR. REMOVED ACCESSORY MOUNTS. REMOVED FUEL PUMP GEAR COVER. REMOVED FUEL PUMP. REMOVED LOOSE FUEL PUMP GEAR. CLEANED AND LOCK TIGHTED GEAR AND BOLT INSTALLED GEAR AND TQ TO 27FLB. INSTALLED FUEL PUMP. ROAD TEST AND TRUCK WAS RUNNING GOOD, THEN ENGINE MADE A BANG AND SHUT OFF, STARTED TRUCK AND GAUGES BLINKED SEVERAL TIMES AND IT LIKE THERE WAS A BAD BATTERY CONNECTION. SMOKED AND MISSED, HAS OIL PRESSURE, CALLED DAVE FISH AND WAS TOLD TO LIMP TO SHOP. SHORTLY AFTER CALLING HIM ENGINE STARTED TO RUN GOOD. GOT TO DRIVEWAY TO SHOP AND IT STARTED TO MISS AND SMOKE AGAIN, NOTICED VOLT METER WAS PAST 16V. PULLED INTO SHOP AND IT RAN GOOD AGAIN. VOLT METER WAS AT 14V STARTED TRUCK TO SEE IF IT MISSED WHEN VOLT METER SHOWED 16V, ROAD TEST AND TRUCK SHUT OFF AGAIN, HARD TO START, BAD CONNECTION, LIMPED TO SHOP. CLEANED BATTERY CONNECTIONS, 1 NEG CONNECTION WAS LOOSE, ENGINE STILL MISSES, LOAD TEST WIRES 5,6,9,11 AND 15 FOR POWER AND GROUND TO PLD. TRY TEST PLD, STILL MISSES, PERFORM CYL CUT OUT TEST, #1CYL AT 92% COMPRESSION AND ENGINE SMOKES LESS WHEN #1 CYL CUT OUT. REMOVE FUEL LINE, PASS THRU TUBE, AND NOZZLE, GET CYL IN VALVE OVERLAP AND PRESSURIZE CYLINDER, CAN HEAR AIR GOING OUT EXHAUST BUT STILL HOLDS SOME COMPRESSION, BELIEVE TO HAVE BAD VALVE SEAT BUT UNSURE UNTIL CYL HEAD IS REMOVED. REMOVED TURBO, EXH MANIFOLD, EGR COOLER AND BRACKET, OIL AND WATER LINES AND REMOVE CYL HEAD. CANNOT SEE ANYTHING VISIBLY WRONG WITH HEAD. #1 AND #2 HEADS HAVE WET EXH PORTS. SENT EMAIL TO PENNDOT. THEY APPROVED REPLACING HEAD

Still has no power , excessive smoke ,can smell raw fuel ,tech is looking for anyone with any ideas ?
thank you

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[Jon Cecil](#) 852 posts since Nov 25, 2014

Re: Excessive smoke , No power Oct 21, 2020 9:48 PM

If unit is still having hard time starting, go push in the cam and crank sensors and see if it changes. These sensors are known to walk out and not cause codes.



[Chris Vanboom](#) 145 posts since Nov 21, 2014

Re: Excessive smoke , No power Oct 22, 2020 3:28 PM

Check the drain valve at the bottom of the oil filter housing. I have come across similar issues and found damaged drain valves - the CTV circuit will get fed with oil pressure leakage from the failing valve and cause smoking/low power and stalling.



[Kyle Siebert](#) 4,010 posts since Nov 14, 2014

Re: Excessive smoke , No power Oct 29, 2020 7:01 PM

Nice work Chris.



[Mark Bird](#) 6 posts since Nov 17, 2014

Re: Excessive smoke , No power Oct 26, 2020 1:21 PM

check fuel pump drive bolt



[Jason Jordan](#) 13 posts since Nov 17, 2014

Re: Excessive smoke , No power Oct 29, 2020 11:35 AM

replace pld with test, seen on in past this corrected issue



[Stan Tharp](#) 15 posts since Jun 30, 2015

Re: Excessive smoke , No power Oct 29, 2020 2:21 PM

Tech finally found the problem, here's a portion of his write-up

REPLACE HEAD AND REASSEMBLE ENGINE. ADJUST OVERHEAD. IT NOW RUNS BETTER BUT STILL SMOKES SOME. FOUND #2 UNIT PUMP NOT WORKING PROPERLY. REPLACED UNIT PUMP. PLACED 5 CALLS TO TECH SUPPORT . NO HELP. TESTED CONSTANT THROTTLE VALVE OPERATION, IT IS LETTING OIL THRU OIL FILTER HOUSING HOLDING 5TH VALVE IN CYL HEAD OPEN RELEASING COMPRESSION, REPLACE CTV, TRUCK NOW RUNS PROPERLY.