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Relation between dieseling and timing	→ Jump to Latest
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D davlac89 ◆ Discussion starter 146 posts · Joined 2012	°
#1 · May 13, 2015	
Hi,	
So my car has been dieseling when I shut it off. At first I thought it might have refuelled it and it still does it. So I read there was a relation between dieseling me that when you shut the car off, no matter whats the timing, there should be so why is there a relation between the two? An explanation would be apprecia	and timing, but it seems to e no more sparks anyway,
Thx	
1968 Chevelle 396 (bored 402) / 4-spd T-10 / 3.73	
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C crazy canuck 1034 posts · Joined 2003	•
#2 · May 13, 2015	
You could try lowering your idle speed and turning out your idle mixture screwup a bit. This has worked for me in the past. I'm sure you will get more indepth	
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#3 · May 14, 2015

Dieseling or run on is the result of the fuel being used auto igniting .

In other words there is enough heat and air in the combustion area to light off the fuel being used. Lower octane gas will ignite quicker or has a quicker flame speed or more BTU of energy and therefore will cause run on easier than higher octane.

But we also need air mixed with the gasoline to get this to make FUEL.

You do not need spark if the conditions are correct, as you know.

The cure is to kill the gasoline flow or air flow.

In the carburetor world killing the air is easier.

Closing the throttle plates kills air.

Too low of initial timing will make the engine idle low and will make a person raise idle speed by opening the throttle more.

Well opening the throttle more allows that air to get into the engine.

Higher initial timing will allow you to close the throttle more.

Screwing idle mix screws out to have higher idle will also allow you to back off he idle speed with the closing of throttle blades.

Sometimes heat is high enough or conditions are perfect to light off the mix with the smallest opening. In this case I have installed a solenoid to set idle against.

When you turn off the key power drops out the solenoid and the throttle slams completely shut killing all air and the engine instantly dies.

Confused enough yet..

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RobinIs5

RobinIs5 8431 posts · Joined 2005

#4 · May 14, 2015

In 1971 Chevelles, This is how Chevrolet would stop 307 cars from Dieseling. (Dieseling = Fuel in the combustion chamber is ignited by HEAT & COMPRESSION "Without the need of a spark.

71 owners may know this. Under the glove box you will find relays. What do they do? When you shut the 71 -307 Chevelle ingition "OFF" and pull the key out of the colum, LISTEN REAL CLOSE, WHY? You will hear some "CLICKING NOISES" under the glove box,,,,GEE whats that? When the key is out and in your hand. This starts in motion the G.M. 1971 ANTI diesel system.

the A/C clutch on the engine, Without the engine having any source of " Ignition power " The A/C compressor is now ENGAGED..... The A/C compressor is now trying to do its job by pumping R-12 Freon. With the compressor ENGAGED and trying to pump freon, This action or " Engine Load " will cause the engine to STOP rotating, And or " Dieseling ".

Another way to stop a car from "Dieseling ", TRUST ME this AINT the right way to do this, I have done it many times in my EARLY years with my one owner LS-5 .M-22. At the same time you shut the key off, DUMP the clutch in High Gear.

To avoid all of the above problems, Also the possibility of DESTROYING your engine, NO not hurting but, DESTROYING your engine. Get your Ducks in the right order.... Fuel - HI-Test or Cheeeeep Stuff,, Timing,, Compression,, Air Temp.,, Humidity,, Factory items missing from engine bay (fan shroud, fan blade?-Etc., Etc.) Water temp.= engine bay heat?.

It is not Mission Impossible,, One or two items may be out of order, Get some help, Find a gearhead. Good Luck.

Bob

1970 SS LS-5/M-22 El Camino- Org. Owner-AACA 2016-Senior Grand National WinnerMCACN-GOLD-2013 1970 (FRAUD) SS 468 Station Wagon - Driver	~
Q Reply □ Like	∞°
J jeff swisher 5919 posts · Joined 2008	0
#5 · May 14, 2015	

I never knew about the AC thing.. Pretty sneaky really.

My 78 nova had 245psi cranking pressure and this was checked with the throttle closed! over 12.0 compression with iron heads 54cc chambers and 270H comp cam 224@.050

When I turned the key off it did not even act like I turned it off continued to run like normal. This was with Sinclair 93 octane and back when the 91 and 93 was orange or pink in color. It would also do it when I ran TEL in it or TEL and other boosters that make your hair fall out.

The solenoid was the only fix other than idling it down to 650 rpm.

And I do not like the low RPM idle.

Again the AC deal is a neat bit of information. Thanks Bob

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D davlac89  Discussion starter
146 posts · Joined 2012
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#6 · May 14, 2015

Thx for the answers! So in the end, when the keys off, timing does not play any role in dieseling? My idle is around 800ish, the idle mixture screw is not the screw to change the idle speed?

Q	Reply ■Ĵ Like		αĝ
	B bradley67		0
	The role timing plays is - by increasing advance spark timing for idle rpm increase you colose your carb butterflys more which will bring idle rpm back to where it was initially - in choking off or giving less air supply which should help lessen run on.		
	67 SS BBC 411's		~
	Q Reply ■ Like		∞0
J	jeff swisher 5919 posts · Joined 2008		000
#8 · I	May 14, 2015		
not h	mixture screws are in the front of the carb or a holley will be in the side of the metering bloave any linkage attached nor do they move any linkage.	ock th	ey do
The	screw that is the idle speed screw will move the throttle linkage		
Q	Reply ■ Like		ಹ
Z #9 · 1	zeke67 3 4636 posts · Joined 2005 May 14, 2015		0
char crea trick	rded timing will make an engine hotter at idle. Which can create these hotter spots in the onber that can aid in auto ignition. As cars got into the emission years of the 70's, to handle tion which happens at higher cylinder temperature, timing got retarded. In addition to the , which is elegant, some cars use a solenoid on the throttle that would fully close the throtthe ignition off.	e NOx AC rel	lay
Zeke			~
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