

I'm not a robot























All, Did a search and didn't turn up anything. I am finding conflicting information here about the capacity for the ALH engine. The oil change how-to states to add 1 gallon (4 quarts) at the oil change. Then I found some VW docs online that say the capacity is 4.5L for the 1.9 ALH. I know the PD engine takes 4.5L but does the same hold true for the ALH? I put in 4 quarts and the dipstick shows right at the top of the cross-hatched area.I don't want to under fill and I don't want to overfill it either. TIA. The correct amount of oil is what it takes to get it into the proper zone on the correct dipstick... whatever that amount may be. How much that takes depends on a lot of things, but mostly how much oil you got out of the engine... which depends on if you extracted from the top and/or drained from the bottom, etc...Don't go by a hard and fast number. Think with your dipstick, dipstick. I always have at least 5 liters of oil on hand for a full change and enough to top up with later. YMMV. Thanks, I did the oil change top side with my pella and pulled out about 4L. Is the cross-hatching on the dipstick the 'operating range' or the 'add range'? Reason I ask is because there is another mark much higher on the dipstick, but 4 quarts would be equal to about 3.8L which is just about what I got out of her. When I use my Pella and do the oil filter housing I need to add probably 4.2 qts. Pulling the plug usually 4 quarts does it. Is the cross-hatching on the dipstick the 'operating range' or the 'add range'? If only there was some book supplied with the car that would explain the operation of the dipstick... some sort of manual... for the owner. If you happen to find this rare and unusual book, it would tell you that the center crosshatched portion is the 'normal' range, the lower bend is the 'add oil NOW' range and the upper bend is 'do not add oil' range. I prefer to run mine near the top bend. YMMV.Good luck. All, Did a search and didn't turn up anything. I am finding conflicting information here about the capacity for the ALH engine. The oil change how-to states to add 1 gallon (4 quarts) at the oil change. Then I found some VW docs online that say the capacity is 4.5L for the 1.9 ALH. I know the PD engine takes 4.5L but does the same hold true for the ALH? I put in 4 quarts and the dipstick shows right at the top of the cross-hatched area. I don't want to under fill and I also don't want to overfill it either. TIA. From memory, the ALH engine oil change capacity is 4.3 L, aka 4.5 qts (144 Oz to 145.34 Oz) If you look at the technical data, (Bentley's) you will also find another piece of "conflicting" data: dry sump capacity. Par for the course. Don't worry. Sure you can use 4 qts and it can show "FULL": 1. It will depend on how you did the VW owners manual, oil dip stick measuring procedure, a IAW the VW recommended procedure b. normally as one would with any other car c overnight d. etc. 2. how much of the old oil you ACTUALLY took out So... (I am NOT saying to do this, BUT the pure and simple fact of the matter is the ALH (most others engines also) were designed to run: given variance.) MINUS - / PLUS + .5 qt is the practical figure. Thanks, I did the oil change top side with my pella and pulled out about 4L. Is the cross-hatching on the dipstick the 'operating range' or the 'add range'? Reason I ask is because there is another mark much higher on the dipstick, but 4 quarts would be equal to about 3.8L which is just about what I got out of her. operating range If only there was some book supplied with the car that would explain the operation of the dipstick... some sort of manual... for the owner. If you happen to find this rare and unusual book, it would tell you that the center crosshatched portion is the 'normal' range, the lower bend is the 'add oil NOW' range and the upper bend is 'do not add oil' range. I prefer to run mine near the top bend. YMMV. Good luck. lol. good ol boy indeed lol. good ol boy indeed greengeecker, do you play records backwards to hear the secret messages as well? To be fair, I did answer the question without simply posting RTFMFM". The extra M is necessary due to the minimum reply length of 5 characters. If you drain the oil pan, you'll need at least 4 quarts. If you have some suction device so that you can also drain the oil cooler after removing the filter, then you will need about 4.5 quarts. The proper procedure (and safest, IMO) is to add 4 quarts, run the engine, wait for a couple of minutes after shutdown, then check the dipstick to see how much of the 5th quart is needed for top up. My personal experience is related in the first paragraph.Or, you could Read The Fine Manual. Yup, that is exactly what I do. With total abandon I throw in 4 qts, and OCD it to the FULL line. It is usually about .5 or so qts. What is a manual?..jKYou guys are just having some fun at my expense...LOL. I actually do have the manual or part of it anyway. Let's remember the car is 7 years old with 96k on the clock and I just got it Anyone check the Bentley site lately and try to buy a manual for the NB? I actually do have the manual or part of it anyway. Let's remember the car is 7 years old with 96k on the clock and I just got it Anyone check the Bentley site lately and try to buy a manual for the NB? Sure have. Looks like you have the paper repair manuals going into a new printing to cover 2010 models, DVD copies currently available & owner's manuals available as well. Anyone checked diparts lately and tried to buy a manual for the NB? They apparently have BOTH of them, polycarbonate & wood pulp.Let's remember there are those of us with older NBs than yours (10yrs, 120k miles) and don't need a manual to read the dipstick. Glad you're enjoying the new-to-you car. Good luck! I must be completely out if it then. I don't want paper manuals...I want DVD. If I need paper I will print it out...LOL. I mean usually a dipstick would have 'full' or 'add' for it crying out loud...LOL. I don't even want to get into the orange plastic dipstick tube! Easy enough to find and replace though...and cheap. I can install that, but can't read a dipstick...LOL. The 1.9 TDI engine from Volkswagen is one of the best known and most reliable diesel engines, produced from 1991 to 2010. This engine set the standard for diesel engines of its time and became popular for its durability, economy and excellent performance.Technical specificationsCylinder block material: cast ironEngine type: diesel, in-lineNumber of cylinders: 4Valves per cylinder: 2Piston stroke, mm: 95.5Cylinder diameter, mm: 79.5Compression ratio: 22.5 and 19.5Engine displacement, cc: 1896Power and torqueThe 1.9 TDI engine was offered in several power variants:68 hp at 3,700 rpm75 hp at 4,500 rpm90 hp at 4,000 rpm90 hp at 4,150 rpmTorque ranged from 140 Nm at 2000-3000 rpm to 235 Nm at 1900 rpm.TurbochargerThe engine was equipped with various turbochargers including Garrett TB0261, KKK K03, Garrett GT1744V and Garrett GT1749V to improve efficiency and power.EconomyThe 1.9 TDI engine is known for its low fuel consumption. For example, for the Volkswagen Golf 3, the fuel consumption was:City: 6.8 l/100 kmHighway: 4.4 l/100 kmMixed cycle: 5.0 l/100 kmOil and maintenanceRecommended oils for this engine include 5W-30, 5W-40 and 10W-40 and the oil capacity is 4.3 liters. The oil change interval varies from 7500 to 15000 km. Oil consumption can reach up to 500 grams per 1000 km.Re liability and lifeAccording to the factory, the engine life is not specified, but in practice these engines often exceed 400 thousand kilometers of mileage with proper maintenance.ApplicationThe 1.9 TDI engine has been installed in various car models, including:Volkswagen: Caddy, Golf, Vento/Bora, Passat, Polo, SharanAudi: A3, A4, A6, CabrioSoda: OctaviaSEAT: Alhambra, Cordoba, Ibiza, Leon, ToledoFord: GalaxyReliability, problems and repair of 1.9 TDI enginesVolkswagen 1.9 turbodiesels appeared in 1991 on VW Passat B3 cars. Here is used cast iron cylinder block with forged crankshaft with a stroke of 95.5 mm and pistons with a diameter of 79.5 mm, which makes it possible to get 1.9 liters of volume. The first AAZ turbodiesels were fitted with an aluminum single-shaft 8-valve head with pre-chambers. The intake valves were 36mm in diameter, the exhaust valves 31mm, and the valve stem diameter was 8mm. Then came the 1Z, AHU, AFN and other engines that used a direct injection cylinder head. Valve diameter here is 35.9/31.5 mm, valve stem diameter is 7 mm. The camshaft rotates by means of a toothed timing belt, which must be changed every 60 thousand kilometers.The first versions were equipped with a mechanical fuel injection system, then the engine was transferred to direct injection. Learn the main differences between the versions below.Production of 1.9 TDI engines with direct injection continued until 2010, but since 1998 they were replaced by 1.9 TDI with pump injectors.Modifications of 1.9 TDI enginesAAZ (1991-1998) a pre-chamber diesel engine with a compression ratio of 22.5 and a mechanical fuel injection system. There were two variants of AAZ: with Garrett TB0261 turbine and with KKK K03. Both variants were without intercooler, boost pressure 0.7 bar. This engine develops 75 hp and 150 Nm of torque.1Z (1991-1996) turbodiesel with direct injection with electronic fuel injection, with other pistons and compression ratio of 19.5. Here there is a turbine Garrett GT1544S with intercooler, and boost pressure is 0.95 bar. Power was increased to 90 hp and torque is 202 Nm at 1900 rpm.AHU (1996-2001) replacement of 1Z, which was adjusted to Euro-2 environmental standards.AFN (1996-1999) AHU analog with Garrett GT1744V-VNT15 turbine with variable geometry, with other injector atomizers with larger holes and with a different ECU. Power is 110 hp, torque 235 Nm.ALE (1997-2000) AHU engine for US environmental standards.AGR (1996-2005) transverse variant of AUDI diesel engine.ALH (1997-2010) same AGR for North American market, but with GT1749V turbine.AHH (1997-2001) Same as AFN, but differs in the fuel injector, injectors and Garrett GT1749V turbine. Power is 90 hp, torque 210 Nm.AHF (1997-2000) analog ALH with atomizers, as an AFN.AVG (1999-2001) renamed AFN.AVG (2000-2006) AHF replacement with other pistons.ABL (1992-2003) Analogous to AAZ, but with a different fuel injector, Garrett TB0254 turbo, modified oil pan and modified exhaust. It is found only on Volkswagen T4.Problems and reliability of 1.9 TDI enginesWhite smoke in the AAZ. This is usually due to cracks in the cylinder head, which is not uncommon on AAZ. You need to replace the head with a whole one.Loss of traction. In almost all cases, the problem lies in the supercharger control valve N75. If this does not help, then it is necessary to carry out diagnostics the motor is old, there are a lot of options. These diesel engines are not picky about the quality of fuel, but it is better not to take any risks and not to pour the first hit grease. Otherwise, these motors are very good and extremely reliable, they have a resource of 400 thousand kilometers and more.Tuning engines 1.9 TDI (AFN, 1Z, AHU)chip tuningIf your engine is not completely ruined and you want to make it to go a little faster, you can do a chip tuning. Versions with 110 hp are chipped up to 140-150 hp, and the torque will exceed 300 Nm.Weaker variations at 90 hp on the firmware show 110 hp and 250-260 Nm of torque. Anything else makes no sense its too old a car, there will be no superdynamics anyway.MOTOR RATING: 4+ 1.9 tdi oil capacity 29-07-2009,12:46 PM Hi. Bit of a canic first question. Done a quick search and cant seem to find the answer. How much engine oil does a 1994 1.9 tdi hold. Doesnt mention capacity in the handbook for some reason. Thanks. Re: 1.9 tdi oil capacity 29-07-2009,10:37 PM Re: 1.9 tdi oil capacity 29-07-2009,11:34 PM Disclaimer: VW Audi Forum is an "independent enthusiast website", administered in line with guidelines supplied by VAG in the UK, and is in no way related to any of the Worldwide Volkswagen,Audi,Seat,Skoda,Bentley,Bugatti,Porsche or Lamborghini group of Companies. For official up to date information on any of these vehicles, please visit the official websites. Any comments made throughout this website, are the views of the respective poster, and in no way represent the views of the VW Audi Forum Administration, or the worldwide Volkswagen & Audi Group of companies. VW Audi Forum do not vet and are not responsible for any information which is posted in this forum. All content is viewed and used by you at your own risk and we do not warrant the accuracy or reliability of any of the information. Copyright: Certain "words", "phrases" and "images" used on this website by the Administration are "Copyright" of Volkswagen AG, Volkswagen AG (Germany), Audi GB, Audi AG (Germany), Volkswagen Motorsport GB, Volkswagen Motorsport AG (Germany), Audi Motorsport AG (Germany), Volkswagen Racing GB, Bentley, Bugatti, Porsche and Lamborghini. No image can be replicated by anyone WITHOUT the relevant Companies written permission. All trademarks and copyrights remain property of their respective owners. No part of the VW Audi Forum website or forum may be reproduced without written permission from the site administration PLEASE NOTE - PERSONAL ABUSE, ABUSE AGAINST THIS OR ANY OTHER WEBSITE OR ANY COMPANY WILL NOT BE TOLERATED. OFFENDERS WILL BE MODERATED OR EVEN BANNED. This website and forum are best viewed at a minimum resolution of 1024 by 768. - VW AUDI Forum - The #1 Volkswagen (VW) Group Forum - Volkswagen (VW) - Audi - Seat - Skoda - Bentley - Bugatti - Lamborghini - Porsche - Scania - MAN - Ducatti - VW Audi Forum - www.vwaudiforum.co.uk - www.vwaudiforum.co.uk - info@vwaudiforum.co.uk - Engine: Engine Code. A sequence of letters and numbers. This includes the engine block type and engine family, but may also include other information.Capacity: Capacity/Filter capacity in litres(liters). Engine oil fill quantity (Service fill).Intervals: Oil Change Intervals (use: normal). Engine oil should be changed at the latest after this time or after miles/km, whichever comes first.The oil filter must be replaced every time the oil is changed, unless the car's owner's manual recommends otherwise. Model:VolkswagenGolf V, 1K1 (2003-2009) (EU) (VW)EngineCapacityIntervalsGolf V 1.4 16V (55 kW) (2003-2006)BCA3.215 000 km/ 12 monthsGolf V 1.4 16V (59 kW) (2006-2008)BUD3.215 000 km/ 12 monthsGolf V 1.4 16V FSI (2003-2006)BKG, BLN3.515 000 km/ 12 monthsGolf V 1.4 16V TSI (90 kW) (2007-2008)CAXA, CMSB3.615 000 km/ 12 monthsGolf V 1.4 16V TSI (103 kW) (2006-2008)BMY3.615 000 km/ 12 monthsGolf V 1.4 16V TSI (125 kW) (2005-2008)BLG3.615 000 km/ 12 monthsGolf V 1.6 (2003-2008)BGU, BSE, BSF4.515 000 km/ 12 monthsGolf V 1.6 MultiFuel E85 (2007-2008)CCSA4.515 000 km/ 12 monthsGolf V 1.6 16V FSI (2003-2008)BAG, BLF, BLP3.515 000 km/ 12 monthsGolf V 2.0 16V FSI (85 kW) (ZA) (2005-2008)BH4.6 / 0.515 000 km/ 12 months Model:VolkswagenGolf V, 1K1 (2003-2009) (EU) (VW)EngineCapacityIntervalsGolf V 2.0 16V FSI (110 kW) (2003-2008)XW, BLR, BLX, BLY, BMJ, BNX, BNY, BVZ4.6 / 0.515 000 km/ 12 monthsGolf V 2.0 16V FSI (110 kW) (2004-2008)AXW, BLR, BLX, BLY, BMJ, BNX, BNY, BVZ4.6 / 0.515 000 km/ 12 monthsGolf V 2.0 TFSI GTI (147 kW) (2004-2009)AKL, APF4.5 / 0.515 000 km/ 12 monthsGolf V 2.0 TFSI GTI (147 kW) (NAR) (2005-2008)BPY, CCTA, CBF44.7 / 0.515 000 km/ 12 monthsGolf V 2.0 TFSI GTI (169 kW) (2006-2008)BYD4.7 / 0.515 000 km/ 12 monthsGolf V 2.5 (NAR) (2007-2008)CBTA, CBIA, CCCA4.515 000 km/ 12 monthsGolf V R32 (2005-2008)BUB, CBR45.5 / 0.515 000 km/ 12 monthsGolf V R32 (NAR) (2007-2008)BUB, CBR45.5 / 0.515 000 km/ 12 monthsGolf V 1.9 TDI (66 kW) (2003-2008)BRU, BXF3.815 000 km/ 12 monthsGolf V 1.9 TDI (66 kW) DPF (2007-2008)BJX4.315 000 km/ 12 monthsGolf V 1.9 TDI (77 kW) (2003-2008)BJB, BKC (PD)4.315 000 km/ 12 months Model:VolkswagenGolf V, 1K1 (2003-2009) (EU) (VW)EngineCapacityIntervalsGolf V 1.9 TDI (77 kW) (2003-2008)BJB, BKC (PD)4.315 000 km/ 12 monthsGolf V 1.9 TDI (77 kW) DPF (2006-2008)BLS, BXE4.315 000 km/ 12 monthsGolf V 1.9 TDI (77 kW) DPF 4Motion (2006-2008)BLS, BXE4.315 000 km/ 12 monthsGolf V 2.0 SDI (2004-2008)BDK (PD)3.8-4.315 000 km/ 12 monthsGolf V 2.0 TDI (100 kW) (2003-2008)AZV (PD)3.815 000 km/ 12 monthsGolf V 2.0 TDI (103 kW) (2003-2008)BKD (PD), BMM (PD)3.815 000 km/ 12 monthsGolf V 2.0 TDI (103 kW) 4Motion (2003-2008)BKD (PD), BMM (PD)3.815 000 km/ 12 monthsGolf V 2.0 TDI (100 kW) DPF (2005-2008)AZV (PD)3.8-4.315 000 km/ 12 monthsGolf V 2.0 TDI (103 kW) DPF (2005-2008)BKD (PD), BMM (PD)3.8-4.315 000 km/ 12 monthsGolf V 2.0 TDI (103 kW) DPF 4Motion (2005-2008)BKD (PD), BMM (PD)3.8-4.315 000 km/ 12 monthsEngine: Engine Code. A sequence of letters and numbers. This includes the engine block type and engine family, but may also include other information.Capacity: Capacity/Filter capacity in litres(liters). Engine oil fill quantity (Service fill).Intervals: Oil Change Intervals (use: normal). Engine oil should be changed at the latest after this time or after miles/km, whichever comes first.The oil filter must be replaced every time the oil is changed, unless the car's owner's manual recommends otherwise. Model:VolkswagenGolf IV (1997-2006) (EU) (VW)EngineCapacityIntervalsGolf IV 1.4 16V (1997-2000)AHV, AKQ3.2 / 0.515 000 km/ 12 monthsGolf IV 1.4 16V (2000-2004)AHW, AKQ3.5 / 0.515 000 km/ 12 monthsGolf IV 1.6 (1997-2000)AEH, AKL4.5 / 0.515 000 km/ 12 monthsGolf IV 1.6 (2000-2004)AEH, AKL4.5 / 0.515 000 km/ 12 monthsGolf IV 1.6 16V (2000-2004)ATN, AUS, AZD, BCB3.5 / 0.515 000 km/ 12 monthsGolf IV 1.6 16V FSI (2002-2004)BAD3.5 / 0.515 000 km/ 12 monthsGolf IV 1.8 20V (2000-2001)AGN4.5 / 0.515 000 km/ 12 monthsGolf IV 1.8 20V Turbo (110 kW) (1997-2001)AGU, AQA, ARZ, AUM, AWD, AWW4.5 / 0.515 000 km/ 12 monthsGolf IV 1.8 20V Turbo (110 kW) (2001-2006)AGU, AUM4.5 / 0.515 000 km/ 12 monthsGolf IV 1.8 20V Turbo (132 kW) (2001-2006)AUQ4.5 / 0.515 000 km/ 12 monthsGolf IV 2.0 (1998-2000)APK, AOY, AZJ4 / 0.515 000 km/ 12 monthsGolf IV 2.0 (2000-2004)APK, AOY, AZJ4 / 0.515 000 km/ 12 monthsGolf IV 2.3 VR5 (1997-2000)AGZ3.9 / 0.515 000 km/ 12 monthsGolf IV 2.3 VR5 (2000-2001)AGZ3.9 / 0.515 000 km/ 12 monthsGolf IV 2.3 V5 20V (2001-2004)AQN4.6 / 0.515 000 km/ 12 monthsGolf IV 2.3 V5 20V 4Motion (2001-2004)AQN4.6 / 0.515 000 km/ 12 monthsGolf IV 2.8 V6 4Motion (2000-2004)5.0 / 0.515 000 km/ 12 monthsGolf IV R32 (2003-2004)BJS, BML5.515 000 km/ 12 monthsGolf IV 1.9 SDI (1997-2000)4.5 / 0.515 000 km/ 12 monthsGolf IV 1.9 SDI (2000-2004)4.5 / 0.515 000 km/ 12 monthsGolf IV 1.9 TDI (66 kW) (1997-2000)AGR, ALH4.5 / 0.515 000 km/ 12 monthsGolf IV 1.9 TDI (66 kW) (2000-2004)AGR, ALH4.5 / 0.515 000 km/ 12 monthsGolf IV 1.9 TDI (66 kW) 4Motion (1999-2000)AGR4.5 / 0.515 000 km/ 12 monthsGolf IV 1.9 TDI (66 kW) 4Motion (2000-2004)AGR4.5 / 0.515 000 km/ 12 monthsGolf IV 1.9 TDI (81 kW) (1997-2000)AHF4.5 / 0.515 000 km/ 12 monthsGolf IV 1.9 TDI (81 kW) (2000-2004)AHF4.5 / 0.515 000 km/ 12 monthsGolf IV 1.9 TDI (85 kW) (1999-2000)AJM, AUY (PD)4 / 0.515 000 km/ 12 monthsGolf IV 1.9 TDI (85 kW) (2000-2002)AJM, AUY (PD)4 / 0.515 000 km/ 12 monthsGolf IV 1.9 TDI (85 kW) 4Motion (1999-2000)AJM, AUY (PD)4 / 0.515 000 km/ 12 monthsGolf IV 1.9 TDI (85 kW) 4Motion (2000-2002)AJM, AUY (PD)4 / 0.515 000 km/ 12 monthsGolf IV 1.9 TDI (96 kW) (2001-2004)ASZ (PD)4.5 / 0.515 000 km/ 12 monthsGolf IV 1.9 TDI (96 kW) 4Motion (2001-2004)ASZ (PD)4.5 / 0.515 000 km/ 12 monthsGolf IV 1.9 TDI (110 kW) (2000-2004)ARL (PD)4.5 / 0.515 000 km/ 12 monthsGolf IV 1.9 TDI (110 kW) 4Motion (2000-2004)ARL (PD)4.5 / 0.515 000 km/ 12 monthsEngine oil capacity - 1.9tdi DPF or not? Engine oil capacity - 1.9tdi DPF or not? 15-09-2013,06:37 PM Have a 2008 1.9tdi se estate. The engine oil capacity is either 3.8 litre (non DPF) or 4.3 litre (with DPF).How can I tell whether mine has a DPF or not?Also out of interest why is the capacity different - and if the DPF was originally fitted and then removed would this reduce the oil capacity requirement?Thank you for any advice. Re: Engine oil capacity - 1.9tdi DPF or not? Re: Engine oil capacity - 1.9tdi DPF or not? 15-09-2013,07:06 PM Is your car 30 to tax? Check the option codes in the spare wheel well on the sticker and put them into here - Sent from my iPhone using Tapataik Re: Engine oil capacity - 1.9tdi DPF or not? Re: Engine oil capacity - 1.9tdi DPF or not? 15-09-2013,08:57 PM Thanks for this; very helpful. The car is 125 to tax - does this mean it is not DPF for definite - or is I still need to check the options codes? Originally Posted by A6. Chris Is your car 30 to tax? Check the option codes in the spare wheel well on the sticker and put them into here - Sent from my iPhone using Tapataik Re: Engine oil capacity - 1.9tdi DPF or not? Re: Engine oil capacity - 1.9tdi DPF or not? 15-09-2013,08:58 PM My A3 1.9 has a DPF, it's 2009 and 30 to tax. The non-DPF model of the same year is 125. Check the codes anyway, it probably doesn't have one but check via the codes. Re: Engine oil capacity - 1.9tdi DPF or not? Re: Engine oil capacity - 1.9tdi DPF or not? 15-09-2013,11:18 PM One easy way to check if your car has a DPF is that if it has, then there will be a DPF warning light on the dash display. you can check in your car manual what this looks like. MKG Golf SE 1.6TDI 105bhp winter pack ,sunroof , full size alloy spare wheel, flat tyre indicatorSkoda Octavia II SE 1.9PZ TDI1VW 1302LS Beetle Karmann Cabriolet 1971 1584cc Re: Engine oil capacity - 1.9tdi DPF or not? Re: Engine oil capacity - 1.9tdi DPF or not? 16-09-2013,08:01 AM What is your engine code? i.e. BKD, BLS ect. find it, post it, and we will tell you from there. My Golf was a 1.9TDI Match 2008/2009 and it had a DPF, engine code BLS and it was 125 to tax. My March 09 A3 1.9 BLS with DPF is 30P OE check your codes and report back. Re: Engine oil capacity - 1.9tdi DPF or not? Re: Engine oil capacity - 1.9tdi DPF or not? 16-09-2013,08:18 AM Hi my 1.9TDI with DPF Jan 2009 had a DSG box and the emission's value was 137grms so it must have been tipped over the tax price band by the DSG Box. (bu\*\*er) Hignes 2.0 4Motion 140PS 01/07/2013 Re: Engine oil capacity - 1.9tdi DPF or not? Re: Engine oil capacity - 1.9tdi DPF or not? 16-09-2013,08:19 AM Originally Posted by richard@thebrae Hi my 1.9TDI with DPF Jan 2009 had a DSG box and the emission's value was 137grms so it must have been tipped over the tax price band by the DSG Box. Ah Timuan manual you see that's why then. Re: Engine oil capacity - 1.9tdi DPF or not? Re: Engine oil capacity - 1.9tdi DPF or not? 16-09-2013,11:01 AM Thanks for the help much appreciated. I did check for the warning light last night - and there is not one. The engine code is BXE and the emissions are 137g/km - it is a manual gearbox. I am pretty sure this is non DPF (happy days) but will check the options codes later as well.On a separate note I will need to buy new discs and pads in the not too distant future - I looked at Pagid on Euro but there are 3 different sizes (280, 288 and 310mm) for the front and two for the rear - all listed for my reg. Is there a way to tell what is fitted to my car without taking the wheels off and looking? The 1.9 TDI engine, specifically the AFN variant, is a notable powertrain in the Volkswagen Group extensive line of diesel engines. Introduced in the mid-1990s, this engine quickly became a cornerstone of Volkswagens diesel technology, renowned for its blend of efficiency, performance, and durability. The AFN is a turbocharged direct injection diesel engine, characterized by its robust design and ability to deliver a significant amount of torque, often at low RPMs, making it particularly suitable for a range of vehicles, from compact cars to larger family models. The AFN engine is often praised for its reliability and fuel efficiency, attributes that have made it a favorite among both enthusiasts and everyday drivers. With a displacement of 1.9 liters, it typically produces around 90 to 110 horsepower, depending on the specific tuning and application. The engines design features include an aluminum cylinder head, a cast iron block, and a variable geometry turbocharger, which enhances its performance across various driving conditions. This combination allows for a responsive driving experience while maintaining impressive fuel economy, often achieving upwards of 50 miles per gallon on the highway.Applications of the 1.9 TDI AFN EngineThe AFN engine found its way into several models across the Volkswagen Group, showcasing its versatility. Heres a list of notable vehicles that utilized this engine:Volkswagen Golf IV (1997-2004) One of the most popular compact cars in Europe, the Golf IV benefited from the AFN engines balance of performance and efficiency.Volkswagen Passat B5 (1996-2005) A midsize sedan that offered a spacious interior and comfortable ride, the Passat B5 paired well with the AFN engine for those seeking a reliable family car.Volkswagen Audi A4 (B5, 1994-2001) The A4 is known for its premium feel and handling; the AFN engine provided a solid diesel option for buyers looking for a more economical choice.Skoda Octavia (1996-present) As a value-oriented model, the Octavia benefited from the fuel efficiency and performance of the AFN engine, appealing to budget-conscious consumers.SEAT Toledo II (1998-2005) This compact sedan offered a unique blend of style and practicality, with the AFN engine providing a reliable power source. Volkswagen 2.0 L AFB Engine: Specs, Problems, and ReliabilityThe AFN engine was also popular in various commercial vehicles, including the Volkswagen Transporter and Caddy, where its torque characteristics were particularly advantageous for hauling and carrying loads. Overall, the 1.9 TDI AFN engine has left a significant mark in the automotive world, known for its durability and efficiency, making it a preferred choice for many drivers across different segments.Specifications of the 1.9 TDI AFN EngineThe 1.9 TDI AFN engine is a well-engineered piece of machinery that has gained a reputation for its efficiency and reliability. Below, we delve into the detailed specifications of this engine, covering various aspects that contribute to its performance and functionality.Engine SpecificationsSpecificationValueEngine TypeIn-line 4-cylinder, Turbocharged DieselDisplacement1.9 liters (1896 cc)Max Power Output90-110 hp (66-81 kW) @ 4,000 RPMMax Torque210-240 Nm @ 1,900-2,400 RPMCompression Ratio19.5:1Fuel SystemDirect InjectionTurbochargerVariable Geometry Turbocharger (VGT)Fuel TypeDieselCooling SystemWater-cooledEngine ManagementElectronic Control Unit (ECU)Performance SpecificationsSpecificationValue0-100 km/h (0-62 mph)Approximately 11-12 secondsTop SpeedAround 200 km/h (124 mph)Fuel Economy (Combined)Approximately 5.0-6.0 L/100 kmCO2 EmissionsApproximately 135-150 g/kmCapacity and RecommendationsThe oil capacity and the type of oil used in the 1.9 TDI AFN engine are crucial for maintaining optimal performance and longevity. Here are the details:SpecificationValueOil Capacity (with filter)4.5 litersOil Type5W-40 Fully Synthetic or 10W-40 Semi-SyntheticOil Change IntervalEvery 10,000-15,000 km (or as per manufacturers recommendation)These specifications highlight the engineering prowess behind the 1.9 TDI AFN engine, showcasing its balance of performance, efficiency, and reliability, which has made it a staple in various models within the Volkswagen Group. Volkswagen 1.8 Turbo AWT Engine: Overview and SpecsCommon Problems and Reliability of the 1.9 TDI AFN EngineThe 1.9 TDI AFN engine is widely recognized for its durability and efficiency, but like any mechanical component, it is not without its issues. Understanding these common problems can help owners maintain their vehicles and address concerns before they escalate. Common ProblemsWhile many enthusiasts praise the AFN engine for its reliability, there are several issues that have been reported over the years:1. Turbocharger FailureThe turbocharger is a crucial component of the AFN engine, and its failure can lead to significant performance drops. Symptoms of turbo issues include: Loss of power Whining or grinding noises Excessive smoke from the exhaust2. Injector ProblemsFuel injectors in the AFN engine can become clogged or fail, leading to rough idling and poor fuel economy. Signs of injector issues include: Engine misfires Increased fuel consumption Rough engine performance3. EGR Valve IssuesThe Exhaust Gas Recirculation (EGR) valve can become blocked with soot over time, causing the engine to run poorly. Symptoms may include: Increased emissions Poor acceleration Engine warning lights4. Timing Belt WearThe timing belt is integral to the engines operation, and neglecting its replacement can lead to catastrophic engine failure. Recommended intervals for timing belt replacement are typically around: Every 60,000 to 80,000 miles5. Oil LeaksOil leaks can occur due to aging seals and gaskets. Common areas for leaks include: Camshaft seals Oil pan gasket Turbocharger oil feed lines Volkswagen 1.6 MPI Engine: Overview, Specs, and ReliabilityReliability FactorsDespite these potential issues, the 1.9 TDI AFN engine is generally regarded as reliable, especially when properly maintained. Here are some factors contributing to its reliability:Regular Maintenance: Keeping up with oil changes, filter replacements, and scheduled services can significantly extend the life of the engine.Quality Parts: Using OEM or high-quality aftermarket parts during repairs can prevent premature failures.Driving Habits: Gentle driving and avoiding excessive idling can reduce stress on the engine components.Timely Repairs: Addressing issues as they arise can prevent them from developing into more serious problems.In summary, while the 1.9 TDI AFN engine is known for its reliability, being aware of common problems and taking proactive measures can help owners enjoy a trouble-free experience with this diesel powerhouse. Regular maintenance and attention to detail are key to ensuring long-term performance and durability. The 1.9-liter Volkswagen BLS 1.9 TDI diesel engine was produced from 2005 to 2010 and was installed on many models of the German concern VAG, but is best known for the Passat B6. This diesel engine differed from analogues of the BKC and BXE types primarily in the presence of a particulate filter.The EA188-1.9 series also includes: AJM, ASZ, AUY, AVB, AVF, AWX, AXB, AXC, BKC, BLS, BXE.SpecificationsProduction years2005-2010Displacement, cc1896Fuel systemunit-injectorsPower output, hp105Torque output, Nm250Cylinder block/cast iron R4Block headaluminum 8Cylinder bore, mm79.5Piston stroke, mm95.5Compression ratio19.0FeaturesOilC Hydraulic liftersTiming drivebeltTurbochargersEGRRecommended engine oil5W-40Engine oil capacity, liter4.2Fuel typodieselEuro standardsEURO 4Fuel consumption, L/100 km (for Volkswagen Passat 2007) city highway combined7.54/4.5/BEEngine lifespan, km~300 000The engine was installed on:Audi A3 2 (8P) in 2005-2009;Seat Altea 1 (5P) in 2005-2010;Seat Leon 2 (1P) in 2005-2010;Seat Toledo 3 (5P) in 2005-2009;Skoda Fabia 2 (3J) in 2007-2010;Skoda Octavia 2 (1Z) in 2005-2010;Skoda Superb 2 (3T) in 2008-2010;Volkswagen Caddy 3 (2K) in 2005-2010;Volkswagen Golf 5 (1K) in 2005-2008;Volkswagen Golf Plus 1 (5M) in 2005-2008;Volkswagen Jetta 5 (1K) in 2005-2007;Volkswagen Passat B6 (3C) in 2005-2008;Volkswagen Touran 1 (1T) in 2005-2010.Disadvantages of the VW BLS engineThese are quite reliable units and problems happen only at high mileage. Due to the fastening with one bolt, the unit injectors lose their tightness over time.The culprit for thrust failures is most often a jammed turbine geometry.Another cause of unstable engine operation is often a clogged particulate filter.Saving on oil leads to wear of the camshaft cams and hydraulic lifters. Author: El Guardiola Doctor of Technical Sciences, former engineer at the Volkswagen plant in Chattanooga, Tennessee (10 years of experience), holder of certificates and patents for inventions, author of a training manual for employees of the Volkswagen Group of America.I consider the internal combustion engine to be the greatest technological achievement and I want to provide information about them to a wide range of car owners. I've been reading with some interest the ongoing discussion about oils. I'm convinced. I'm going to use Delvac 1 and pay for it myself (the Tucson VW dealer will only install Syntec). However, how much oil do I put in (or have them put in)? I bought my TDI Jetta new in July and changed the oil and filter at 1,000 miles. I didn't like the idea of a break in oil - if that's what it was - remaining in a new engine for 5,000 miles. The owner's manual calls for something like 5.5 quarts with filter change. The dipstick reading suggested that was too much. Does anyone know how much, exactly. I'm supposed to install? You guys are right. I'm leaning toward the notion that VW of America is, well, out to lunch. And, when I questioned the use of Syntec, pointing out the section in the owner's manual that clearly specifiedCD, he said, "Oh, I wish they'd white out that part." So, just how much oil do I put in when I change oil and filter? -----Ted White 99.5 blackJetta GL TDI According to the most recent TSB on the tech service site, the oil capacity for the 1.9 TDI is 4.75 qts. I recently had my 5000mi dealer servicing and they overfilled it by a good margin. Based on the amount of oil I drained, I'm guessing they put in 5.5 qts like those old misprinted manuals said. And yes, it was the dreaded 5w30 Castrol Syntec... it should be fine for the next 5000 miles until I bring in my gallon of Delvac 1 at the next change. My manual says 4.3qt for oil with filter replacement. That's a large increase to 4.75qt! Also, I'm going to switch to Delvac1 for my next change. What do you do about the remainder of oil needed when you are using 1 gallon bottles of Delvac? Do you pull .3 or .5 quarts from another gallon of Delvac?This message has been edited by msuco (edited November 08, 1999). I plan on keeping my "open" gallon of Delvac 1 for topping off and etc since I won't really know how much is in there without measuring it, so its perfect as my supply.I will use a full gallon only for the changes. Me too! The tech, when he changed my oil, actually asked me if I wanted the gallon he used to top off. I said he could have it for \$12.00! I felt guilty later when I saw how he put the open gallon in my trunk wrapped in a thick plastic bag, so that no spills would get in my trunk. My dealer is great! I love bradnoevwaudi.com I think? Regarding the above, Chevron Delo 400 Synthetic is available in quarts which is convenient for topping off.

**Vw 1.9 tdi engine oil capacity. Vw t5 1.9 tdi engine oil capacity. Vw golf 1.9 tdi engine oil capacity. Vw caddy 1.9 tdi oil capacity. Vw golf 5 1.9 tdi oil capacity. Vw passat b5 5 1.9 tdi oil capacity. Vw golf mk5 1.9 tdi oil capacity. 2001 vw beetle 1.9 tdi oil capacity. 2002 vw jetta 1.9 tdi oil capacity. Vw touran 1.9 tdi oil capacity. Vw t5 1.9 tdi oil capacity. Vw t5 1.9 tdi oil capacity. Vw golf 4 1.9 tdi oil capacity.**