Asgard Engineering

Carbon Contamination in Inlet System



Problem

EGR gases combined with oil vapor from crankcase form carbon deposits in the intake system of the vehicle, leading to poor performance, reduced fuel economy and costly repairs.

Solution

ProVent[®] air/oil separator

Vehicle specific kits from

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3mm thick stainless steel

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mounting bracket

Prevents oil buildup

Prevents carbon buildup

in intercooler

in intake system

Reduces smoke

Easy to service

and odours

aases

fittings

Filters the crankcase

mage Above: A blocked Inlet manifold due to carbon buildup on a Land Cruiser 70 series V8

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Water in fuel

Image Above: A contaminated fuel filter after only 3000km of highway driving in a

PreLine Diesel Prefilter kits

Water Contamination in Diesel System

Solution

(ISO/TR 16332)

media

High particle separation

>40% of 4 micron particles

(initial separation efficiency

acc. to ISO 19438:2003)

using OEM specification

High performance filtration

- MANN FILTER PreLine 150 Diesel fuel prefilter Complete bolt on vehicle specific kits In-cabin warning light for water detection Manual priming pump Water separation >93%







4WD

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Brian Dare & Kerry Williams (Savannah Way)

(Kakadu)

Trip Leaders: Stephen & Amanda Borg

Tovota Prado 120 Series TD & camper trailer

Nissan Patrol & camper trailer

Another great trip was getting ready to start. After 6 months in the planning and many discussions around the table it didn't take long for the trip to fill up. We were still lucky to fit in new club members Hem and Evonne who were keen to give their new 150 Series Prado and camper trailer a work out.

The plan was for some of the boys to check out the Alice Springs to Finke Races, some 220kms over the Queen's Birthday weekend (which became a separate club trip) while others drove or flew directly to Alice Springs.

Hemant & George Brid Gary Welsh Rob Freshv

Particiants

Monday 8th June – Arriving in Alice Springs – Michelle

It's Monday morning and everyone is heading to Alice Springs. Due to work commitments, Kerry, Maria and Michelle meet at Sydney Airport to travel by plane. The men left during the week with the camper trailers in tow. As the plane took off we watched the huge city below turn to bush then as the time went by the ground turn red, we could see for miles. It's sure a sunburnt country and beautiful from the

We met at the Big 4 Caravan Park with 2 nights booked to allow us enough time to check the town out. As we got out of the taxi we were lucky to see Hem and Evonne with Stephen and Amanda who had also just arrived.

After checking in we headed in town for lunch and a look around town but there wasn't much open due to it being a public holiday. We then headed back to camp to wait for everyone else to arrive. The guys traveling up from the Finke Races started to roll in around 7 pm with stories that they had travelled up by the Ghan Track which was very soft and slow going. It took 5 hours of driving but they enjoyed it and where pleased to see us when they arrived.

Free day in Alice Springs – Michelle

Today was a free day with things to do such as cleaning out cars, shopping, refueling and washing etc. When all these fun things were done, everyone found time to go sightseeing. Some went to the School of Air which was very interesting, a must see if



- Costly repairs The possibility to
- be stuck in remote locations Filters clogging
- prematurely

rail systems, injectors,

Problem

makin tracks

The Marbles NT

Kakadu AND SAVANNAH WAY **JUNE 8 – AUGUST 6. 2015**

Dennis & Michelle Northcott	Toyota Hilux TD & camper trailer
Hemant & Evonne Daya	Toyota Prado 150 Series TD & camper trailer
George Bright	Toyota Lexus 470
Gary Welsh & Maria Reedy	Toyota Hilux TD & roof top tent
Rob Freshwater & Julie Rogers	Toyota 105 Land Cruiser TD & camper trailer

you intend heading up to Alice Springs, some went to the Desert Park, another great place to visit. Later that night we all went out for dinner for Amanda's Birthday at the Overlander, the dinner and cake was really nice.

Day 1 – Alice Springs to Tennant Creek – Stephen & Amanda

Our first day of the trip has arrived! It was an early rise this morning for a targeted 8am departure! Once we all packed up we made our way outside the Big 4 and assembled the convoy. We drove off at 8.15 am through Alice Springs and continued up the Stuart Highway with temp only hitting 11 degrees this morning. Travelling up the reasonably straight highway we all started to settle in and stopping at the Ti Tree Roadhouse for a spot of morning tea. George almost had a hitch hiker but managed to avoid that situation.

Continuing on at our cruising speed we ambled along for a few more hours before taking the turn off at the Devils Marbles at around 1 pm. With food in our bellies we all headed out to explore, climb the nearest marbles while trying not to get blown off the edge or fall over.

With everyone intact and a group photo taken we were back on the road heading towards Tennant Creek, with temps up to 31 degrees. We passed many mini-termite people mounds along the road the edge of the highway which were wearing shirts, clothes with amazing slogans like no beer in here!

More driving and we make it into Tennant Creek and to the local BP for a fuel up. There were 4 army tanks being transported and the rigs all fueling up at the same time. We then made our way to Banka Bank Homestead for the night in a great little section for our group. All in all, it was a great first day on the road.

Day 2 – Tennant Creek to Katherine – Hem & Evonne

Our second glorious morning and the campsite were awoken to a huge flock of Galahs singing "get up at 6.30am this morning". From there it was a leisurely start with wheels up at 8.40 am for the 560km drive up to Katherine. A vast and mostly flat landscape followed us with hues of green and shades of red. The wilderness of the Aussie outback crept ever forwards as we willed the lushness of Katherine to eventually engulf us.

The group revelled in the glorious sunshine that soon emerged and resulted in temperatures over 30 degrees for the long day. Along the way there seemed to be an endless construction of termitaria across the landscape, especially one very large one in particular in Mataranka which is guite popular with the tourists. Along our travels we veered off for morning tea at Elliot. All enjoyed some nice snacks including a peacock and her two bubs that were very happy to be fed. Another good feed was at Daly Waters Pub for a "Hilux" Beef and Barra burger for everyone. The huge portions were fitting for the landscape and the long hours of travel. Eventually there was a final 3km stretch of the Stuart Hwy up to Katherine for a well-deserved 3 night stay.

Day 3 – Katherine – Garry & Maria

This was our first day in Katherine a city named after the 2nd daughter of James Chambers. In 1862 Chambers was the patron of John Stuart (i.e. the Stuart Highway - Adelaide to Darwin). The Big 4 caravan park slogan "Katherine in a day no way" proved to be true. Our group of 13 split and went several different directions. Some went shopping, some hit the Cutta Cutta Caves and other went to Katherine Hot Springs, while others foolishly soaked up the local atmosphere in the only pub in the town. Others went to a museum where we learnt about the history of Katherine in the wars and in the local flood problems. I also read about the Bill Tapp dynasty the "Cattle King" of Katherine and that night we had the pleasure of being entertained by his granddaughter Holly Tapp, singing at the Katherine Country Club while enjoying a nice dinner.

Day 4 – Katherine – Garry & Maria

Our day started as we had booked a four hour cruise through the Katherine Gorge system in the Nitmiluk National Park. Due to the possible presence of saltwater crocodiles, no swimming or canoeing was allowed in the main river. We travelled by boat through the first three gorges and climbed up to a waterfall where we all enjoyed a safe swim free from crocodiles. Nitmiluk National Park lies between the monsoonal tropics and the arid zone which is dominated by a yearly cycle of flood, drought and fire. Our journey through the gorge system consisted of a boat trip through each individual gorge followed by a walk, to the next boat. We spotted a small amount of bird life including herons and





black shags just to name a few. We were lucky enough to see three fresh water crocodiles lying on the water's edge, followed by lunch back at the caravan park.

Our first stop was Mardugal campground with nice shady sites but the camp manager alerted us to a large group coming in so suggested if we wanted a quiet camp we could try Muirella Park 23kms north of Cooinda. After set up and lunch most of our Later on everyone headed to the hot water springs for a luxurious group followed the 6 km dirt track to sandy billabong. Then we soak. On the way out we noticed the "crocodiles safety" sign all rendezvoused at Cooinda to purchase our park passes \$25/ that stated "saltwater crocodiles attacks can cause death, these person and make our way to the boat landing for our 4.30pm animals are known to move into this area UNDETECTED" GULP! Yellow Water cruise.

Day 5 – Katherine to Edith Falls – Rob & Julie

We were woken again by the local birdlife - a cacophony of sounds, shrilling and boisterous "wake up, wake up, get out of bed!" At least that's what they seem to be saying - hang-on, maybe that's Julie! Camp pack-up was always fun (not!). Well at least with the camper trailer it is perhaps a little easier than tenting, although we're still getting used to it.

It's looking like another "day-in-paradise" awaiting us so we start heading out with rusty bolt worn in honour around one's neck, only to form an immediate traffic jam at the exit as all and sundry head out! Only a short run today and just over an hour later we arrive at Edith Falls to form another traffic queue awaiting entry.

Relaxing, we are truly able to appreciate the beauty of this place. As Julie later put it, "living the dream." We are only here for one night but could easily make it ten! Willie Wagtails enjoy the water, with colourful parrots and what looks like a local wattle bird demanding territory. Bowerbirds are also around or at least that's what they appear to be from their hopping nature. The endangered Gouldian finch is also supposed to habitat this area.

UV cream and hat, we head out for the 2.6km loop walk via the upper pool/falls as this gives us a swim at the pond near the camp. Plenty of great photo opportunities of the spectacular falls and surrounds. Edith Falls is so named in honour of Mr Chamber's third daughter (Chambers - being the sponsor of explorer Stuart).

"Leliyn" is the name given to this place by the indigenous Jawovn people, the meaning of which we haven't been able to determine. Our verdict for today...it's going to go near the top of our recommended "to do" list.

Day 6 – Edith Falls to Kakadu Yellow Waters – Julie & Rob

Another beautiful morning and surprisingly more queues of campers as we leave. Rob is disappointed as he is presented with the next worthy holder of the rusty bolt, just 3 minutes after leaving camp!

We travelled north along the Kakadu Highway heading for the southern end of Kakadu National Park. We noted the rise in temperature from a pleasant 23 to 40 degrees as we travelled. Brian's driving skills were tested as he dodged buffalo or horse dung pellets kindly shared by Hem.

The two hour cruise lead by Ned a local community member and parks officer was an excellent experience with the wetlands brimming with wildlife and colour. We saw at least 6 salties, a Jabiru sitting upon a 30 year old nest, birds too numerous to name including herons, blue winged kingfishers, whistling ducks, spoonbills, pelicans, large white bellied sea eagle, hunting brown ducks, magpie geese, water snake, water buffalo and the Jesus bird who walks on water but is a very modern family as Dad minds the kids. Yellow Water is a magical place, part of the South Alligator flood plains and another must see.

Day 7 – Kakadu Yellow Waters to Kakadu Twin Falls – **Dennis & Michelle**

Today we headed off to Jim Jim Falls and Twin Falls, it's another beautiful day. After travelling 1550km from Alice Springs, we reached our first rough dirt road where we had to air down. After 55km on the dirt we arrived at Jim Jim Falls car park for a 900 meter walk to reach the bottom of the falls. The walk began with small rocks, progressing to quite large and difficult boulders to climb over. At the end of the walk there was a beautiful swimming hole near the lush waterfall where we enjoyed a nice cooling swim, escaping the scorching 38 degree heat.

We headed back to the carpark and bundled into our cars and then had a short drive to Twin Falls. Once there, we hopped onto a small boat where we enjoyed a cruise up the gorge and soaked up the views of the waterfall. I would definitely recommend this to anyone heading to the region. During our cruise up the gorge the two guides told us many stories of the Aborigines and history of the area which was quite enjoyable.

Day 8 – Kakadu Twin Falls to Kakadu Jabiru – **Dennis & Michelle**

Another beautiful day and an easy start leaving at 9:30am. We headed off to Nauringle Rock where we looked at the Aboriginal rock art paintings which included a spirit man, lightening man and kangaroos etc. It was an easy walk to the top with an amazing lookout overlooking the lush bushland that fell before us. We came across a group of school kids from Darwin and there could be heard joking "I BOUGHT A JEEP" "WHAT COLOUR" "ORANGE" followed by "STOP IT" from the teacher. One could say that advertisement has done its job well.

Back on the road heading towards Jabiru for lunch everyone bought something from the bakery. We then headed off to our campsite for the evening at Meri. There was a demonstration

makin tracks







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by the local Aboriginal ladies that was showing how they dye the reeds that they use to make baskets. Some of the group went up to the bounty of Arnhem Land, this is a sight to see with 360 degrees view. You could see for miles, it was lovely and green and a great spot for photographs. We headed back to camp for dinner only to be bitten by millions of mosquitoe,; one would say it wasn't the most pleasant experience due to all the bugs.

Day 9 – Kakadu Jabiru to Darwin – Brian & Kerry

It was an early start due to the mozzie issue. We rolled out of camp at 8:30am and soon stopped for morning tea at the Bark Hut. Brian and Rob checked out his car issue only to find out that he unfortunately had a leaking fuel filter. After replacing the filter we all then headed off for Darwin. In Darwin we arrived at Lee Caravan Park, it was quite spacious and shady but slightly rundown. Hem and Evonne decided to go fishing and would catch up with us in Darwin. Once we set up camp we then headed to Mindle Markets where we all enjoyed a good night. We gathered with 100's of others to watch the sunset over the ocean, it was a beautiful sight to see. We explored all the different food markets and of course the souvenirs and other goods.

Day 10 – Darwin free day – Brian & Kerry

We awoke ready for a free day in Darwin. Everyone headed in different directions to do washing, shopping and other tasks. It was a great opportunity to get cars serviced along with minor repairs to campers too. Some of the group went and enjoyed fish and chips for dinner while watching the sunset at Cullen Bay Marina.

Day 11 – Darwin free day – Stephen & Amanda

With different activities on the agenda on another free day, some headed into Darwin to visit the various museums and other cultural sights. The highlight of the day would have been the Outback Ultimate Adventure that the Daya's and the Borg's went on. It started with a sea plane flight into the Finniss River and then onto a pontoon for a cruise lunch, before a good trip onto the flood plains on a V8 powered airboat. This was followed by a helicopter flight over the area and a swim before the return flight back to Darwin. Others visited the India at Mindle Beach for dinner: others went to the wharf before final shopping and fuelling up.

Day 12 – Darwin to Litchfield – Stephen & Amanda

Today sees us leave our most expensive campground, \$55/per night. A plan was brewing amongst some for a Big M run for coffee etc on route out of town. Our path into Litchfield was on backroads via Berry Springs/Box Peninsular Road. At one stage the track disappeared as there was no water in the crossing across the Finniss River. We had had a few kilometres of great quality dirt road and some 144kms later we arrived at Litchfield Safari Camp. Lunch was held and a plan for the arvo agreed. First was a trip out to the Cascades for a swim and exploration. Then hoping the crowds had lessened, we headed to Wangi where we enjoyed a swim and waterfalls where some members jumped and earned ice-creams. Rob and Julie graciously prepared a cook up dinner; Chicken Surprise and Butter Chicken before desert around the campfire!

Day 13 – Litchfield – Hem & Evonne

With a leisurely exit at 9:30am, we could already feel the intensity of the heat in the air. Our first stop was The Lost City of Litchfield National Park. The consensus view was that the city must still be lost as there were no apparent signs of civilisation. What were unique were the different types of sedimentary rocks including ripple stone, siltstone, conglomerate and sandstone. We drove on to the magnificent magnetic termite mounds and a swim at Florence Falls and Buley Rockhole.

After a great afternoon swimming we returned to the Buley Rockhole carpark only to find Rob and Julie under the bonnet of their truck investigating to starting problems. After everyone helped out, it was up and running again only to stop again. Finally after managing to get the truck running again Rob and Julie decided to head back to Darwin, with a suspect a fuel pump. Gary travelled back with them as he was heading back to Darwin to drop Maria at the airport.

Rob's Update - We ended up having to stay in Darwin for over a week. We thought Toyota had fixed the fuel issue by replacing a seal only to have the truck stop again. We took it to a diesel specialist where they found the immobiliser on the fuel pump was causing the problem. After this was fixed it was time to leave Darwin and start heading west and explore a bit more of the East Kimberley region which was the second part of a planned trip.



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