Customer Name : Serial No: 472907S1200402
DE 23 D472907 DETROIT SERIES DD15 DD15

R.O No. : D12720 R.O Date : 01/12/25 Dept : S
RO total 232.10 Kilometres: 972176 Advisor No. : 002963
Cus total 232.10 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 200051
Complaint : COMPALINT: Travel to site & investigate Shutting down
Cause : CAUSE: Possible low coolant
Correction : CORECTION: travel to site, connected to dig link 8, no active fault codes. Checked coolant level 9 Level was between cold max + min) Topped with 1.5L, checked oil level (Full customer about a coolant hose, which had signs of leaking (Took Photo). closed bonnet, locked bullbar, took for test drive, didn't shutdown/no Codes present. packed up laptop and cables. drove back to workshop.

R.O No. : D12579 R.O Date : 30/09/25 Dept : S
RO total 6,035.54 Kilometres: 0 Advisor No. : 002963
Cus total 6,035.54 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 002445 003250
Complaint : COMPLAINT: Remove and Replace Horton
Cause : CASUE: fan hub over heated and locked up
Correction : CORRECTION: brought vehicle in
removed drivers side boost pipe
unbolted fan off horton
drained coolant from header tank into clean tub
removed lines off header tank
removed header tank off radiator
unbolted fan shroud and removed fan off truck
removed fan hub and sat next to new hub
due to upgraded pulley system had to grind down mounting bracket, painted and fitted hub to vehicle
refitted fan to new hub
bolted fan shroud and fitted new bolts due to missing bolts
refitted header tank and coolant
refitted boost hose and replaced clamps as they were seized
ran system and bled cooling system all ok

Job number : 2 Operation 14DEZZZZZZ002 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 002445
Complaint : COMPLAINT: Remove & Replace Governor Valve
Cause : CAUSE: system over pressurizing
Correction : CORRECTION: removed and replaced governor valve and oring seals
replaced air dryer filter due to filter being old
ran system up for leaks- all ok

Job number : 3 Operation 14DEZZZZZZ003 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 002445
Complaint : COMPLAINT: Remove & Replace Solenoid
Correction : CORRECTION: removed and replaced solenoid
removed terminals and fittings and fitted to new solenoid
run new plug to wires
fitted to vehicle and ran vehicle

checked for fault codes none found

Comments : 30/09/2025 - Part is Due into the branch on the 2nd of October

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R.O No. : D12078 R.O Date : 30/12/24 Dept : S

RO total 3,204.03 Kilometres: 930662 Advisor No. : 003087
Cus total 3,204.03 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 003250
Complaint : Carry out B service with check over
Cause : General maintenance
Correction : Carry out 'B' service and vehicle inspection.
Drain oil and replace filter. Fill and check oil.
Start and check for leaks
Remove and replace batteries - supplied by customer
Carry out full grease and inspection check
Check gear box and diff oils - all ok
Test drive and tidy up work area

Job number : 2 Operation 14DEZZZZZZ002 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 003250
Complaint : Investigate valve clearance
Cause : General maintenance
Correction : Remove air box, brackets and rocker cover
Carry out valve adjustment and check as procedure
Fit new rocker cover gasket.
Fit rocker cover brackets and air box

Job number : 3 Operation 07DE Desc. Electrical
Sale type : C Technician No(s). 003250
Complaint : Investigate LHS door window not operating
Cause : Faulty window regulator
Correction : Check fuse. Check power supply to switches.
Remove door card Check power supply to window regulator 12 volts
Remove inner door skin. Remove window regulator and fir new regulator.
Fit inner door skin and door card
Note: window runner rubber to be replaced.

R.O No. : D11652 R.O Date : 27/05/24 Dept : S
RO total 1,461.30 Kilometres: 0 Advisor No. : 001170
Cus total 1,461.30 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 002596 002445 002632
Complaint : INVESTIGATE TRAILER AIR SUPPLY FAULT
Cause : Corroded trailer brake module.
Pressure switch leaking.

Correction : 27/05/2024
Removed dash, investigated park trailer brake module.
Module found corroded and seized.
Removed and replaced valve park brake.
Reassembled dash, tested park brake action.
No faults found after testing.

29/05/2024
Removed dash, engaged park brake.
Found air leaking from pressure switch.
Removed and replaced pressure switch, reassembled dash, tested action.

No faults found.

R.O No. : D11650		R.O Date :	24/05/24	Dept : S	
RO total	1,349.34	Kilometres:	0	Advisor No. : 001170	
Cus total	1,349.34	War total	0.00	Int total	0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR

Sale type : C Technician No(s). 002974
Complaint : Carry out B service
Correction : 24/05/2024
Cary out B Service as per service sheet.
Found front rear diff output seal leaking.

R.O No. : D11637 R.O Date : 20/05/24 Dept : S
RO total 620.80 Kilometres: 885200 Advisor No. : 1127
Cus total 0.00 War total 620.80 Int total 0.00

Job number : 1 Operation 01DEZZZZZZ001 Desc. ENGINE REPAIR
Sale type : W Technician No(s). 002974
Complaint : Oil leak coming from engine
Cause : Cause: Sump gasket hard and brittle.
Correction : Correction:
Washed truck and test drove.
Found oil leak coming from rear of sump.
Drained engine oil and removed all bolts holding sump.
Removed sump and cleaned all sealing surfaces.
Install new sump seal and all mounting bolt isolators,
torque to spec.
Refilled with oil and test drove, all ok.

Warranty : Claim no. Operation no. Claim no. Operation no.
D11637-1 01DEZZZZZZ001

R.O No. : D11450 R.O Date : 08/03/24 Dept : S
RO total 445.50 Kilometres: 871125 Advisor No. : 001170
Cus total 445.50 War total 0.00 Int total 0.00

Job number : 1 Operation 01DE Desc. Engine
Sale type : C Technician No(s). 002632
Complaint : COMPLAINT: INVESTIGATE ENGINE CHECK LIGHT ON DASH
Cause : CAUSE: BROKEN WIRE FOR COOLANT LEVEL SENSOR
Correction : CORRECTION:
- Plug laptop to truck and connect
- 1 active fault code, coolant level sensor failed high
- Unhook trailer, drive truck into workshop
- Fill out take-5
- Isolate, tag out truck, check sensor resistance, all ok
- Check power to sensor, all ok
- Check earth/signal back, found broken wire
- Depin plug for coolant level sensor
- Repair broken wire, rewire power wire aswell
- Clean up wiring plug, plug back into sensor
- Connect laptop back to truck
- Found no fault code
- Take truck for good test drive
- No lights on dash and no codes in system
- Clean up work area
- Complete paperwork

R.O No. : D11194 R.O Date : 21/11/23 Dept : S
RO total 627.88 Kilometres: 0 Advisor No. : 001170

Cus total	627.88	War total	0.00	Int total	0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001737
Complaint : COMPLAINT: Investigate DPF pressure sensor fault.
Cause : CAUSE: Electrical connector and pins
Correction : CORRECTION: Connect laptop to vehicle and found front DPF pressure sensor high circuit fault. Recheck DPF front sensor and OH. Trace wiring back towards front of vehicle. Found the electrical connector pin contact had lost its tension again after last repair. Replace electrical connector assembly. Clear codes and road test vehicle, OH.

R.O No. : D11089 R.O Date : 19/10/23 Dept : S
RO total 2,605.04 Kilometres: 854085 Advisor No. : 002485
Cus total 2,605.04 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 002755 001737 002632
Complaint : COMPLAINT: Investigate vehicle breakdown
Cause : CAUSE: High DOC outlet temp fault.
Correction : CORRECTION: 19/10/23 Travelled to site and spoke to drive. Went through fault. Connect to vehicle and DOC outlet temp senor inactive. Went through troubleshooting an temps were within spec. Checked DPF zone and was in 0, force burn to watch temps and temps were okay. Advised driver and owner. Travelled back to workshop. 20/10/23 Pulley vehicle into workshop. connected vehicle to Detroit diagnostics to recover fault data. Recovered following codes, DOC outlet temp to high, DOC outlet temp signal spike, abnormal DOC temperature. Carried out removal of cover plate to gain access to sensor plugs. Resistance of all 3 sensors 232ohms. Carried out wiring/pin out from sensor (all) back to ECU and correct spec. Carried out sensor chassis harness, shorts to remaining wires with plug at 6 pin deutch (mid chassis) and found wire 2 in DOC outlet temp sensor plug is picking up 232 ohms at front sensor when plugged in. Required diagnostic schematic to confirm wiring is correct however due to repairs made in particular wiring previously recommend re-wiring circuit to confirmed 100% okay and replace sensor to role out all possible variables. 02/11/23 After repairs, road test vehicle and found temp readings weren't within spec. Went through troubleshooting and check wiring near doc, locate a short in wiring harness. Removed DOC/DPF harness and found electrical connector was difficult to disconnect. Made up new wiring harness as per sample Re-installed wiring harness, checked operation and found another issue with another wiring harness. Address issue to rectify fault. Road test vehicle and faults with DOC/DPF system. Completed paperwork.

R.O No. : D10939 R.O Date : 24/08/23 Dept : S
RO total 176.00 Kilometres: 0 Advisor No. : 002485
Cus total 0.00 War total 0.00 Int total 176.00

Job number : 1 Operation 01DE Desc. Engine
Sale type : I Technician No(s). 002632 5135
Complaint : COMPLAINT: Investigate Turbo
Cause : CAUSE: Loose V-band clamps
Correction : CORRECTION: Fill out take 5, gather tooling. Tilt bullbar and bonnet to gain access to the engine. Remove heat shield for turbo -- could see alot of exhaust soot around turbo and inside of heat shield (took photos). Found 2 v-band clamps a little bit loose. Undone v-band clamps and reposition clamps and tighten back up tight. Checked clamps went all the way home which they did - started truck up to check there was no more leaks. No more exhaust leaks. Refitted exhaust heat shield. Removed intercooler pipes off

intercooler and pressure test intercoder no leaks from intercooler and it held 20PSI in intercooler for over 10 mins. Removed pressure test kit off intercooler refitted intercooler pipes. Cleaned up rub marks on intercooler - put bonnet back down and fitted bullbar back up.

R.O No. : D10775 R.O Date : 03/07/23 Dept : S
RO total 256.33 Kilometres: 833000 Advisor No. : 002675
Cus total 256.33 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 002129
Complaint : COPMPLAINT - Replace radiator caps and hose
Cause : CAUSE - Leaking parts
Correction : CORRECTION - Inspect and carry out Take 5. During engine installation inspection on a different RO#, found both radiator caps and overflow hose all leaking. Advised customer and ordered and picked up parts. Fitted new parts and cleaned engine bay. Checked all work. These caps and overflow were not replaced during engine install as they tested ok previously.

R.O No. : D10759 R.O Date : 03/07/23 Dept : S
RO total 52.00 Kilometres: 833000 Advisor No. : 002675
Cus total 0.00 War total 0.00 Int total 52.00

Job number : 1 Operation 05DEZZZZZ002 Desc. COOLING SYSTEM REPAIR
Sale type : I Technician No(s). 002129
Complaint : COMPLAINT - Investigate coolant loss
Cause : CAUSE - Loosing coolant
Correction : CORRECTION - Inspect and carry out take 5. Gather tooling.
Inspected over engine installation on the engine, to
confirm warranty. Found no leaks around installation, found
top radiator hose leaking checked/tightened all clamps.
Re-pressure tested system to confirm no more leaks.

Customer RO history total	16,217.06
Warranty RO history total	620.80
Internal RO history total	228.00
Complete RO history total	17,065.86

Customer Name : Serial No: 472907S0137397
DE 12 D472907 DETROIT SERIES DD15 DD15

R.O No. : D12696 R.O Date : 17/11/25 Dept : S
RO total 575.92 Kilometres: 968927 Advisor No. : 002963
Cus total 575.92 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 002445
Complaint : Investigate Engine Light
Cause : CAUSE: Pressure Switch/ Fitting leaking air out of Horton plus low coolant level
Correction : CORRECTION: Carried out connecting laptop to freightliner and scanning for codes. found fan stage 1 circuit failed open. Dropped bullbar and opened bonnet. Found air leaking out the guts of the pressure switch. Checked customer supplied pressure switch, incorrect part. Got new pressure switch. used pipe sealant and installed new switch. Cut old terminals off wiring to the switch due to old terminals being eglet and new switch being spade terminals. Crimped new insulation terminals. reconnected laptop and erased codes. took for test drive no faults found.

18/11/2025

Connected laptop to freightliner, found fault codes related to solenoid. dropped bullbar and opened bonnet. found air leaking out of horton fitting. removed fitting out of horton checked stock, found we had fitting in stock, fitted new fitting, took truck for test drive, engine light blinked. Checked codes found low coolant fault code. Lowered bullbar and opened bonnet, inspected coolant sensor harness, all ok. Unplugged coolant sensor plug, inspected pin tension and cleaned with contact clean and compressed air. Plugged back into sensor. removed radiator cap found coolant level below minimum level. topped up with coolant. removed earth from sensor to block, cleaned and re installed. Found coolant leak from radiator hose to head tank. Radiator cap recommended replacing with new clamps. Took for final test drive no fault found

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R.O No. : D10639 R.O Date : 22/05/23 Dept : S
RO total 122,470.61 Kilometres: 830021 Advisor No. : 002675
Cus total 122,470.61 War total 0.00 Int total 0.00

Job number : 1 Operation 01DEZZZZZZ001 Desc. ENGINE REPAIR
Sale type : C Technician No(s). 002445 002632 001737 5135 002
Complaint : COMPLAINT: Loss of oil pressure, coolant loss and excessive cranking to start
Cause : CAUSE: Cracked liners, head gasket failed, scored crank, water in oil
Correction : CORRECTION: Inspect and carry out take 5, organise all tooling. Tilt down bullbar, tilt down bonnet, connect computer, do a D-Dec download and a code scan. Organise and hook up an oil pressure gauge (mechanical) check pressure with mechanical and laptop both reading the same as each other. Run truck for an hour, could not fault oil pressure, checked oil found water in oil. Oil cap had water residue

in the underside of cap pressure test cooling system pressure did not drop over 45 minutes. Use barring over tool on engine, bar over engine slowly while watching coolant pressure tester. Pressure did not move. Remove barring over tool, run up engine again. Removed oil cap and had alot of while smoke coming out. Concluded that there was a problem within the engine. Isolated and tagged out truck, removed airbox, intercooler hoses, drained coolant. Took an oil sampled, drained oil, removed coolant hoses, remove and mark all injector lines, remove fuel lines. Plugged al fuel lines, remove rocker cover, undo and remove injector wire harness. Undo and remove injector clamps. Use injector puller, remove all injectors and mark. Remove turbo, found EGR pipe welded closed. Remove EGR cooler which had been blanked off. Get A/C degassed, so could remove hoses and put to the side. Fit barring over tool back onto engine, barring over until it was on TDC, remove crank angle sensor on bellhousing so could fit TDC locking pin, fit cam locking plates to confirm it was on TDC. Undo and remove camshafts and mark. Undo and remove camshaft housing box. Undo all headbolts, hook up crane to lifting jig, hook up jig to all 3 lift points, remove head with crane and sit on bench. Found gasket had blown threw in two places, possible three. Removed head gasket and cleaned down block surface, use the correct liner protrusion measurement tool to measure cylinder liner protrusion, follow all steps - step by step and record all measurements on paper which is in this job pack. Remove sump to gain access to big ends and main caps. Undo and remove all big end caps, mark turning crank to make easier removal. Push all piston and rods out and mark, check big end bearing wear.. was ok to remove. Pistons from rods found all 6 little end bearings warn bad. Found number 3 pistons had picked up badly and scored up the cylinder liner bad and was very hard to remove piston. Remove all cylinder liners with the correct liner puller, found two liners cracked very bad. All liners had pitting badly on the outside of them. Removed two main caps and inspected the crank and bearing's to find wear in the bearing and scored crank so crank was not good to use again. We talked to the customer about everything that we found and was decided to get a new engine. Removed bonnet and cooling system package, removed drive belts, removed fan hub off engine, remove and mark all wiring on engine. Undo exhaust, support gearbox, wedge a fork
into clutch to hold it together when its unbolted. Remove all clutch bolts, undo and remove all bellhousing bolts along with rear engine mount bolts, hook up lifting eyelets to engine to support the engine with crane. Undo and remove front engine mounts, remove fuel lines off engine side, remove air hose from compressor, remove lines to power steering pump. Remove oil pick up and oil pump. Remove engine with crane and sit on stands in workshop. Remove power steering pump, starter motor, A/C compressor and alternator. Fitted these parts to the new engine. New engine came with a new wiring harness on it, found gearbox input shaft had wear on the spigot bearing end so removed clutch assembly, removed clutch form, remove input bearing carrier and clips. Was very hard to remove bearing on input as shaft was stuck on, fit new input shaft along with clips, bearing and gasket. Fit new clutch fork, fit new clutch brake. Found grease hose for clutch release bearing was broken off so fitted a new one. Fit two new rear engine mounts, was a big job. Fit clutch assembly back to gearbox.

Fit front engine mount bracket to engine, fit new front engine mount to truck. Hook up lifting jig to new engine. Lift up with crane, fit and line up new engine in engine bay. Do up bellhousing, torque up and pain pen, line up clutch, pressure plate to flywheel. Torque up bolts and paint pen. Remove fork that was lifted before engine was removed. Line up rear engine mounts, do up and torque up, paint pen lower engine onto front engine mount. Torque up and paint pen, fit up and plug in all wires to engine. Fit fan hub to engine. Hook up air line to fan hub, fit cooling package back to truck. Fit top and bottom radiator hoses. Fit back drive belts, fit air lines back to air compressor. Fix new air intake elbow to air compressor. Have 1 new line made up for fuel hose going from fuel pro to engine and other fuel hose from engine to tank. Shorten fit. New coolant heater hoses and bypass hoses on RH side of engine bay. Fit back radiator support brackets. Fit new fuel pro filter. Fit new air filter to airbox. Fit new air dryer filter. Fill coding system with new coolant. Make up new cables from alternator to starter motor. Fit intercooler hoses prime oil system then fill engine oil to correct level. Fit air box back onto engine. Fit back the bonnet, hook up wiring to bonnet. Fit new receiver dryer to A/C system. Hook up hoses to A/C compressor. Have it gassed to find it had a leak. Sublet out to have a new one fitted. Fit back hose to power steering pump and reservoir. Fit new bolts to intercooler mounts. Prime fuel system. Start the truck was sluggish to start and starter motor was getting hot so removes wires from starter motor. Unbolt and replace starter motor. Fit back wires to starter motor. Start truck. Turns over good now, starts fine. Put cooling system under pressure... Holds pressure and no leaks. Top up engine and fuel system, top up power steering fluid. Run engine up, take for good test drive. Recheck over truck.
16/06/2023 - Helped technician with investigation of DD15 engine. Fitted digital and mechanical gauge on oil pressure unit sensor, couldn't get oil pressure to build. Removed oil cap and noticed contaminated residue on oil cap, water mixed with oil. Removed rocker cover and inspected head. Contaminated residue was in engine head. Removed over head cams, rocker gear and cam box. Removed DD15 head in sequence to avoid damage to the head. Checked bore for wear and damage to crosshatching was noticed. The bore was scored, on investigation the liners were cracked and badly damaged. Dropped engine sump. Removed pistons and liners at the same time, inspected liners fully when out of engine, noticed full cracking in the casing. Removed crank caps to inspect the internals. Crank was scored ends. Requested new engine due to findings.
16/06/23 - Assisted technician in removal of engine. Supported engine block with overhead crane. Held gearbox with stands to remove gearbox mounts. Removed all wiring from engine and made sure all hoses were removed before pulling engine block. Removed front engine mounts, removed front bonnet mounts, proceed to slowly put weight on engine. Removed bell housing bolts, removed pressure plate bolts. Removed engine from chassis and fitted to stands. Cleaned up spilt oil and coolant on ground.
7/06/2023 - Complete paperwork and isolations. Repair wiring looms conduit in engine bay. Assist removing transmission input shaft and bearing - bearing binding on shaft and difficult to remove. Pack away tools, tidy area. Complete paperwork.

Job number : 2 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 002632
Complaint : COMPLAINT - Air leak from rear
Cause : CAUSE - Leak in hose and fitting
Correction : CORRECTION - Investigated air leak on truck. Run Freightliner to max air pressure. Checked leak, found leak in air line. Replaced air line with 5m of new line and installed with new fitting. Tested work for leaks, none found.

Job number : 3 Operation 14DEZZZZZZ003 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 002381 002632
Complaint : COMPLAINT - Repair engine bay wiring harness
Cause : CAUSE - Engine critical failure
Correction : CORRECTION - After new DPF was fitted it came up with 2 codes. DOC outlet and inlet DPF pressure code checked resistance of sensor, sensor was within spec. Did a continuity test from sensors to the first plug behind gearbox, continuity was fine. Did a continuity test from plug behind the gearbox to the plug on the engine, lost continuity with 2 wires. Drew up pictures of both plugs with what wire had continuity and ones that didn't. Plug at gearbox end was a 16 pin which used 8 wires. The plug on the engine used a 14 pin plug and used 10 wires. Pinned out wiring harness to 120 way plug to determine the right wires to be repaired, found the 2 wires that needed repairing. Run new wires from engine down to behind the gearbox, solder the new wires into the original plugs, conduit wires and zip tie up to where the original loom runs. Run code scan, no codes now. Did a DPF regeneration, it did it with no faults, all sensors working take for a test drive, no faults.

Job number : 4 Operation 01DEZZZZZZ002 Desc. ENGINE REPAIR
Sale type : C Technician No(s). 002632 001737

Complaint : COMPLIANT - Replace DPF & repair wiring/loom
Cause : CAUSE - Internal fault in wires and terminals
Correction : CORRECTION - 15/06/23 - Inspect and carry out take 5. Gather tools, remove exhaust clamps. Remove wiring and hoses. Remove holding clamps. Split DPF into 3. Clean all surfaces and assemble new PTO into truck. Fit new clamps and gaskets, fit hoses and wiring. Ensure work carried out correctly.
22/06/23 - Connect laptop to vehicle at site, found had inactive code for DPF inlet pressure fault. Remove pressure sensor and check resistance and compare to another sensor back at workshop, no fault with sensor. Refit sensor and fault code had gone to active, went through troubleshooting and found the electrical connector had a fault each time it was moved. Disconnect and check terminal and sound damaged terminal. Replaced connector with new connector and electrical pins. Assemble DPF and clear out codes. Road test vehicle and recheck over and ok.
26/06/23 - Gathered tooling and computer fill out a take 5 and drive to Adrian's shed in Yarrawonga. Wait for truck to be parked up. Hook up computer to truck, do a code scan. Had a coolant level circuit failed high. Tried to clear code, wouldn't clear. Dropped bullbar and tilted bonnet to gain access to the engine. Checked coolant level, coolant level was fine. Unplug coolant level sensor, checked condition of plug, pins and sensor pins. Pins were a little loose in plug end. Tightened pins to make better contact, plugged back in code still active, unplugged sensor and checked resistance of sensor, 131 ohms which is good. Check power to sensor had 4.81 volts going in and coming out of sensor, which was a bit too high. Checked continuity from plug to as far back as I could go and was ok. Jump plug end with wire code was still active, plugged back in sensor jumped the circuit out of sensor to a good earth and code went. Rescanned codes, no codes. Went further down the harness and wired in a battery earth. Ran truck up and rescanned, no codes.

Comments :

R.O No. : D10437 R.O Date : 21/03/23 Dept : S
RO total 5,437.80 Kilometres: 81659 Advisor No. : 001170
Cus total 5,437.80 War total 0.00 Int total 0.00

Job number : 1 Operation 01DE Desc. Engine
Sale type : C Technician No(s). 002632 5135
Complaint : COMPLAINT: Investigate low oil pressure fault.
Cause : CAUSE: Broken oil filter bypass valve assembly. Faulty oil pick up (pressure bypassing)
Correction : CORRECTION: Checked codes on laptop. Oil pressure low 2 accounts approx 2 sec. Checked oil level, checked pressure, manual gauge 175kpa. Drained sump, removed sump, oil pick up, oil pump. Checked pump, pick up, pick up pressure bypassing. Removed oil filter, removed broke oil filter bypass assembly. Replaced oil filter, and bypass assembly. Refit oil pump, replaced oil pick up assembly. Replaced oil pump transfer pipe orings. Refit sump, replacing seal and isolators. Carried out idle speed balance test, all good.

Checked oil pressure 350 kpa, good. Removed and replaced air con fan belt. Removed gear lever swivel arm and adjusting rod. Adjust clutch. Test drive, oil pressure not dropping below 200kpa, all okay. Completed paperwork.

Job number : 2 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 5135
Complaint : COMPLAINT: Carry out engine service
Cause : CAUSE: Preventative maintenance.
Correction : CORRECTION: Replaced engine oil. Removed and replaced 4 x fuel filters. Removed and cleaned out air filter. Primed fuel system. Checked coolant level, steering fluid, axle oil, gear box oil, adjust clutch and checked brakes. Filled washer bottle with soap. Checked wiper blades. Clean and checked turntable. Turntable worn on pad and pin connect area. Advised customer. Completed paperwork.

R.O No. : D10354 R.O Date : 16/02/23 Dept : S
RO total 454.89 Kilometres: 0 Advisor No. : 001170
Cus total 454.89 War total 0.00 Int total 0.00

Job number : 1 Operation 05DE Desc. Cooling System
Sale type : C Technician No(s). 002445 002129
Complaint : Investigate coolant leak.
Correction : Correction:
17/02/2023
Untighten bottom radiator hose. Remove hose and clamps. Cleaned bottom radiator pipe. Installed new radiator hose and clamps. Re-used coolant from radiator. Pressure tested radiator cap was holding pressure. Taken for test drive. Recheck coolant level. All ok

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R.O No. : D10291 R.O Date : 30/01/23 Dept : S
RO total 378.40 Kilometres: 812561 Advisor No. : 001170
Cus total 378.40 War total 0.00 Int total 0.00

Job number : 1 Operation 05DE Desc. Cooling System

Sale type : C Technician No(s). 999974 002596
Complaint : COMPLAINT: Investigate coolant leak
Cause : CAUSE: Low radiator hose clamp.
Correction : CORRECTION: Check engine for coolant leaks. Lower radiator hose weeping at hose clamp. Reposition and tighten clamp. Wash coolant away (coolant leaked when repositioning clamp) and rechecked for leaks. Following day, no leaks present. Remove hot pipe on EGR cooler and check for internal leaks in EGR cooler. EGR cooler ok. Note - EGR hot pipe has been welded/blocked shut. Run engine up to operating temp and pressure test coolant system, no leaks found.

R.O No. : D10033 R.O Date : 07/11/22 Dept : S
RO total 2,299.66 Kilometres: 797564 Advisor No. : 001958
Cus total 2,299.66 War total 0.00 Int total 0.00

Job number : 1 Operation 01DE Desc. Engine
Sale type : C Technician No(s). 5135
Complaint : COMPLAINT: Carry out engine service & inspection.
Cause : CAUSE: Maintenance.
Correction : CORRECTION: Carry out service as to B service schedule. Replace hub plugs. Clutch swing arm to be replaced.

R.O No. : D9756 R.O Date : 22/08/22 Dept : S
RO total 2,031.54 Kilometres: 776433 Advisor No. : 001958
Cus total 2,031.54 War total 0.00 Int total 0.00

Job number : 1 Operation 01DE Desc. Engine
Sale type : C Technician No(s). 5135 002445
Complaint : COMPLAINT: Carry out engine service.
Cause : CAUSE: Preventative maintenance.
Correction : CORRECTION: Carry out service as to Penske schedule.

Job number : 2 Operation 05DE Desc. Cooling System
Sale type : C Technician No(s). 5135
Complaint : COMPLAINT: Investigate engine fan fault.
Cause : CAUSE: Fan pressure switch leaking air.
Correction : CORRECTION: Check wiring good, plug good, terminals good. Found air leak at pressure switch. Remove and replace pressure switch. Test vehicle no fan codes.

R.O No. : D9712 R.O Date : 08/08/22 Dept : S
RO total 3,309.55 Kilometres: 773176 Advisor No. : 001958
Cus total 3,309.55 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 999974 001737 002077
Complaint : COMPLAINT: Investigate engine fan/check light.
Cause : CAUSE: Bad connection in plugs
Correction : CORRECTION: Plugged in diagnostics. Checked troubleshooting on fan fault code. Checked all wiring for fan. Checked and cleaned out plugs on control unit. Cleared fault codes. Took vehicle for long road test, couldn't fault. Carried out DDEC report. Faults all good, bad connection at ECU plug.

Job number : 2 Operation 14DEZZZZZZ002 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 002077 5135
Complaint : COMPLAINT: Heater tap replacement.
Cause : CAUSE: Tap seal tank.
Correction : CORRECTION: Drained coolant. Removed and replaced coolant tap to cab on firewall. Refilled coolant, checked hot and cold leaks, all okay. Completed paperwork.

Job number : 3 Operation 14DEZZZZZZ003 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 999974
Complaint : COMPLAINT: Heater lines under bunk.
Cause : CAUSE: Reposition and clean tubes.
Correction : CORRECTION: Removed heater lines and found tube needed to be clean. Cleaned tubes and installed new clamps on lines. Rechecked heater lines and no leaks. Completed paperwork.

Job number : 4 Operation 03DE Desc. Air System
Sale type : C Technician No(s). 999974
Complaint : COMPLAINT: Investigate compressor not building air.
Cause : CAUSE: Air leaks, discharge line and in-dash pressure switches.
Correction : CORRECTION: Compressor slow to build air. Disconnect discharge line at drier and check compressor output with engine running. Compressor okay. Discharge line leaking, rub through on hose. Removed mud guard to gain access to discharge line fittings and P-clamps. Removed line. Send hose to Hosepower to be duplicated. Fitted new discharge line, refit mud guard. Checked air build up time with engine running. Air building up okay. Air leak under dash when park brake is released. 2 x pressure switches leaking. Removed dash panels and replaced 2 pressure switches. Refit dash panels. Run engine and test air system. No leaks found, air pressure building up time normal. Completed paperwork.

R.O No. : D9517 R.O Date : 16/06/22 Dept : S
RO total 1,393.05 Kilometres: 763740 Advisor No. : 001170
Cus total 1,393.05 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 002077
Complaint : COMPLAINT: Carry out Engine Service
Cause : CAUSE: Routine maintenance.
Correction : CORRECTION: Replaced engine oil and filters. Replaced fuel filters. Carried out visual inspection of vehicle. Checked all fluid levels. Greased vehicle.

R.O No. : D9378 R.O Date : 26/04/22 Dept : S
RO total 2,325.13 Kilometres: 746072 Advisor No. : 001958
Cus total 2,325.13 War total 0.00 Int total 0.00

Job number : 1 Operation 01DE Desc. Engine
Sale type : C Technician No(s). 002077
Complaint : COMPLAINT: Carry out engine service.
Cause : CAUSE: Routine maintenance.
Correction : CORRECTION: Carried out visual inspection. Replace oil and filters and fuel filters. Checked all levels of fluids. Checked brakes - all ok. Replace oil on first drive axle due to oil being low and burnt on inspection.

Job number : 2 Operation 14DEZZZZZZ002 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 002077
Complaint : COMPLAINT: Adjust turntable.
Cause : CAUSE: Out of adjustment.
Correction : CORRECTION: Fitted turn table pin. Check adjustment, found out of adjustment. Carried out adjustment on turn table - all ok.

R.O No. : D9283 R.O Date : 23/03/22 Dept : S
RO total 889.32 Kilometres: 716134 Advisor No. : 001958
Cus total 889.32 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 002077
Complaint : COMPLAINT: Investigate noise from oil spinner.
Cause : CAUSE: Internal fault in oil spinner.
Correction : CORRECTION: Removed all cables under spinner. Removed and disconnected old oil spinner. Cleaned up block face. Fitted new spinner and gasket. Connected up oil spinner. Refitted all cables under spinner. Checked operation of spinner was all ok.

R.O No. : D9185 R.O Date : 28/02/22 Dept : F
RO total 342.76 Kilometres: 747126 Advisor No. : 001170
Cus total 342.76 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001737
Complaint : COMPLAINT: Breakdown - Park brake valve leaking
Cause : CAUSE: Internal bypass on trailer brake side.

Correction : CORRECTION: Travel to site, inspect vehicle for park brake issues and found trailer side wasn't holding in. Disassemble dash and removed park brake valve assembly. Used customer part and install into vehicle. Check operation and ok. Reassemble dash.

R.O No. : D9158 R.O Date : 18/02/22 Dept : S
RO total 1,544.84 Kilometres: 746072 Advisor No. : 001958
Cus total 1,544.84 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001872 002077 001737
Complaint : COMPLAINT: Investigate engine fan staying on.
Cause : CAUSE: Electrical connection on fan solenoid.
Correction : CORRECTION: Check operation of engine fan and found to be off. Check wiring at fan solenoid and fund connection were dull. Replace connections and shorten supply power and ground wiring to solenoid to remove repair sections.Recheck operation of fan and ok. Check a/c electrical harness and ok.

Job number : 2 Operation 14DEZZZZZZ002 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001737
Complaint : COMPLAINT: Investigate engine oil leak.
Cause : CAUSE:
Correction : CORRECTION: Inspect engine for oil leak and found leak around front corn LHS of rocker cover. Remove stud and check threads and ok. Reinstall and clean area. Road test vehicle and couldn't find any leaks.

Job number : 3 Operation 14DEZZZZZZ003 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001737
Complaint : COMPLAINT: Investigate vibration.
Cause : CAUSE: Movement on frnt input shaft.
Correction : CORRECTION: Check uni joints on driveline and ok. Had found input shaft on front drive had movement. Removed driveline and tighten nut, some of movement has gone but still a little bit movement, going to require further setting shim packs. Inspected ride height and readjust height. Ordered new linkage rubber kits to replace old linkage.
Remove ride height rod. Remove bottom bracket. Replace bracket. Replace rubber for rod. Set ride height level.

R.O No. : D9096 R.O Date : 03/02/22 Dept : S
RO total 150.55 Kilometres: 716134 Advisor No. : 001958
Cus total 150.55 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 002077 999974
Complaint : COMPLAINT: Remove and replace dip stick.
Cause : CAUSE: Old dip stick worn.
Correction : CORRECTION: Removed old dip stick and fitted new dip stick.

R.O No. : D9074 R.O Date : 28/01/22 Dept : S
RO total 1,476.99 Kilometres: 736466 Advisor No. : 001958
Cus total 1,476.99 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001737
Complaint : COMPLAINT: Carry out engine service.
Cause : CAUSE: Maintenance.
Correction : CORRECTION: Drained engine oil, checked coolant level and condition. Changed oil filter and fuel filters, changed fuel pro element, filled engine oil, used air operated fuel primer to prime fuel. Started engine, disconnected primer, turned off engine, rechecked engine oil level and corrected. Test drove vehicle, checked all levels, checked for leaks.

Job number : 2 Operation 14DEZZZZZZ002 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 999974
Complaint : COMPLAINT: Carry out grease.
Cause : CAUSE: Maintenance.
Correction : CORRECTION: Greased all point.

Job number : 3 Operation 14DEZZZZZZ003 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001737
Complaint : COMPLAINT: Check all fluid levels.
Cause : CAUSE: Maintenance.
Correction : CORRECTION: Checked power steering fluid level - ok. Checked gearbox oil level - ok. Checked 1st diff level -ok. Checked 2nd diff oil level - ok. Checked coolant level - ok. Checked front hub oil levels - ok.

Job number : 4 Operation 16OTZZZZZZ001 Desc. MISCELLANEOUS REPAIR
Sale type : C Technician No(s). 999974
Complaint : COMPLAINT: Washer not working.
Cause : CAUSE: Failed pump.
Correction : CORRECTION: Checked for pump function by removing hose from pump, found no flow checked for voltage at plug found 12V at plug. Supplied outside power to pump to effect, ordered and fit new pump. Tested operation, sprayers worked.

R.O No. : D9056 R.O Date : 18/01/22 Dept : S
RO total 94.80 Kilometres: 0 Advisor No. : 001958
Cus total 0.00 War total 0.00 Int total 94.80

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : I Technician No(s). 001872
Complaint : COMPLAINT: Repair bell housing.

Cause : CAUSE: Missing bell housing/loose bell housing bolts.
Correction : CORRECTION: Inspected bolts in bell housing found 4 missing bolts and 6 loose bolts. Tightened loose bolts, replaced missing bolts, while fitting new bolts found bottom bolt hole threads had been stripped. Drilled out hole, tapped heli-coil thread. Fit heli-coil, fit new bolt, as per customer request adjusted clutch. Test drove, rechecked bell housing bolts.

R.O No. : D9012 R.O Date : 22/12/21 Dept : S
RO total 9,047.81 Kilometres: 731703 Advisor No. : 001958
Cus total 9,047.81 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 002255 001737
Complaint : COMPLAINT: Investigate engine fan coming on too early.
Cause : CAUSE: Coolant temp sensors.
Correction : CORRECTION: Connect to vehicle and road test, found CPC module was requesting fan to engage. Check readings and check wiring harness in engine bay and ok. Replace coolant temp sensor, road test vehicle again and fan didn't come in and got temps above 94 degrees.

Job number : 2 Operation 14DEZZZZZZ002 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001737
Complaint : COMPLAINT: Investigate oil leak in cab.
Cause : CAUSE: Diff lock assembly on axle.
Correction : CORRECTION: Inspect oil in cab, found coming from diff lock switch. Trace air line back to diff lock assembly on front drive. Remove assembly and found oil by passing seal. fitted new assembly and blew out air lines to remove oil from line. Check operation and ok.

Job number : 3 Operation 14DEZZZZZZ003 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 002255 001737
Complaint : COMPLAINT: Replace turbo.
Cause : CAUSE: Crack exhaust outlet and slight bend in shaft.
Correction : CORRECTION: Remove intake pipes and oil lines to turbo. Remove turbo, inspect and fund shaft has a slight bend and outlet flange has few cracks. Clean exhaust manifold and installed new turbo assembly. Connect oil lines and intake pipes. Check for leaks and fitted heat shields.

Job number : 4 Operation 16OTZZZZZZ001 Desc. MISCELLANEOUS REPAIR
Sale type : C Technician No(s). 002255 001737 001559
Complaint : COMPLAINT: Investigate failed torque rod bush.
Cause : CAUSE: Bore of torque rod worn.
Correction : CORRECTION: Remove fron torque rod and press out failed torque rod bush. Found bush had bearing retainer and in bore to torque rod. Clean rod and check fitment of new bush and found bush press in without effort. Order a new torque rod and temp fix new bush to rod until rod fitted. Remove temporary repaired front drive torque rod. Fit new complete torque rod and tighten mounting bolts to spec. Check driveline ride height and checked ok.

Job number : 5 Operation 16OTZZZZZZ002 Desc. MISCELLANEOUS REPAIR
Sale type : C Technician No(s). 001737

Complaint : COMPLAINT: Replace damaged oil pressure sensor.

Cause : CAUSE: Sensor plug damaged.
Correction : CORRECTION: Requested to replace damaged oil pressure sensor. Unplugged sensor and remove clean sensor mounting surface. Reift new oil pressure sensor and reconnect plug. Top up engine oil as requested by customer. Booked out 3Ltrs Shell Rimula R4L 15W-40. Complete paperwork and park vehicle at the front of shed for customer pick up.

R.O No. : D8868 R.O Date : 23/11/21 Dept : S
RO total 218.42 Kilometres: 0 Advisor No. : 001958
Cus total 218.42 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001737 002255
Complaint : COMPLAINT: Investigate air leak.
Cause : CAUSE: Air leak from fittings.
Correction : CORRECTION: Locate air leaks on pressure valve. Drain air from system. Replace air fittings and lengthen air line to one of air fittings. Built up air in system and check over and ok.

R.O No. : D8720 R.O Date : 13/10/21 Dept : S
RO total 499.66 Kilometres: 716134 Advisor No. : 001958
Cus total 499.66 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 002077 002295
Complaint : COMPLAINT: Replace worn fuel pro parts
Cause : CAUSE: Cover and cap worn.
Correction : CORRECTION: Remove fuel pro cap and cover, fitted new cap and cover for fuel pro tightened fuel pro.

R.O No. : D8607 R.O Date : 28/09/21 Dept : S
RO total 3,642.73 Kilometres: 716134 Advisor No. : 001958
Cus total 3,642.73 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001559 001737
Complaint : COMPLAINT: Investigate low oil pressure fault.
Cause : CAUSE: Oil level.
Correction : CORRECTION: Connect up to vehicle, check oil pressure and compare readings with engine speed as per service bulletins. No faults were found with readings. Drain oil and lowered sump. Remove oil manifold and check o-rings on pick up tubes. Replace o-rings on tubes, reassemble oil manifold. Clean surface and sump. Install sump, replace oil and fuel filters Put oil into sump. Replace fuel bowl screw ring, found it warp. Bleed fuel system, run up engine. Recheck oil pressure and ok. Road test vehicle and recheck over and ok.
Replace fuel filter on icepack as requested from customer. Carry out balance check on engine through computer and ok. Located air leak behind dash and replace joiner, repair airline on signal line to dash gauge. Located more air

leaks underneath vehicle and replace air fittings.

R.O No. : D8524 R.O Date : 13/09/21 Dept : S

RO total 1,343.10 Kilometres: 708279 Advisor No. : 001958
Cus total 1,343.10 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001602 001872 001559
Complaint : COMPLAINT: Reseal leaking DPF.
Cause : CAUSE: Gasket blown.
Correction : CORRECTION: Lifted truck int air with workshop hoists. Disconnected exhaust from DPF. Removed DPF from truck. Removed wiring control box from DPF once on workbench. Removed clamps from DPF splitting it up into 3 sections. Removed blown gaskets. Cleaned mating surfaces. Fitted new gaskets. Refit DPF back together with new clamps and gasket. Refit wiring control box to DPF. Fitted DPF back onto truck. Connected exhaust to DPF using new gaskets. Plug in DPF. Cable tied wiring neatly to chassis. Lowered truck to ground. Started truck and checked for leaks. No leaks. Took for test drive. No issues. Cleaned work area and completed paperwork.

R.O No. : D8484 R.O Date : 01/09/21 Dept : S
RO total 1,936.24 Kilometres: 708279 Advisor No. : 001958
Cus total 1,936.24 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 002077 001559
Complaint : COMPLAINT: Repair air leak.
Cause : CAUSE: Air dryer leaking.
Correction : CORRECTION: 01/09/2021 - Found air passing through bottom of air dryer. Disconnected and removed air dryer. Stripped down air dryer. Found release valve sticking. Removed governor.
Cleaned out air dryer. Fitted new release valve. Fitted new dryer cartridge. Built up air dryer. Fitted air dryer to the vehicle. Built up air and checked on vehicle, no air leaks and builds up air good.
07/09/2021 - Travelled from workshop to RGM. Picked up parts, then travelled back to A&J rego. Removed air lines from dryer. Removed air dryer housing. Removed fittings from old housing, fitted to new. Fitted air dryer to vehicle, connected up, checked for leaks - all ok.
Travelled back to workshop.

R.O No. : D8306 R.O Date : 26/07/21 Dept : S
RO total 818.82 Kilometres: 702255 Advisor No. : 001170
Cus total 818.82 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 5135 002129
Complaint : COMPLAINT: Investigate noise under load.
Cause : CAUSE: Charge air hoses damaged + worn.
Correction : CORRECTION: Cleaned area, inspected truck, carried out take 5. Investigated exhaust system for potential leak but no leak was found. Investigated boost system, noticed two damaged hoses. Proceeded to carry out a boost test. Tested at 28psi and applied soapy water to all boost hoses. Two

boost hoses leaking bad and slight leakage on top right side intercooler. Removed the two leaking boost hoses. Cleaned all pipes and area. Fitted two new hoses and clamps. Cleaned area of work + bonnet and engine. Test drove and ensured all fluid levels were topped up.

R.O No. : D8284 R.O Date : 19/07/21 Dept : S
RO total 1,050.59 Kilometres: 700197 Advisor No. : 001958
Cus total 1,050.59 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001872
Complaint : COMPLAINT: Carry out grease.

Cause : CAUSE: Maintenance.
Correction : CORRECTION: Greased all points on vehicle, checked over truck while carried out grease, checked all ok.

Job number : 2 Operation 14DEZZZZZZ002 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001872 001559
Complaint : COMPLAINT: Replace engine oil and filter.
Cause : CAUSE: Maintenance.
Correction : CORRECTION: Parked vehicle in workshop, drained engine oil, refit sump plug with new copper washer, removed oil filter cap, removed oil filter, replaced o-ring on filter cap. Fit new filter and filter cap, torqued filter cap to spec. Filled engine with correct amount of oil, ran engine, rechecked oil level. Noted defects evident whilst working.
- injector tube seal leaking.
- cab box leaking.
- coolant leak from header tank.
- oil leak near or from compressor.
- coolant leak from hose on oil module.
- found turbo drain to be leaking.
- air leak behind dash when foot brake applied.

Job number : 3 Operation 14DEZZZZZZ003 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001872
Complaint : COMPLAINT: Repair air leak behind dash
Cause : CAUSE: Failed pressure switch.
Correction : CORRECTION: Build up air, operated service brake, could hear large air leak behind dash. Disassembled dash and removed gauge panel, using soapy water identified the service brake pressure switch was leaking internally. Remove pressure switch, fir new switch, tested operation, no further leaks, reassembled dash.

R.O No. : D8095 R.O Date : 24/05/21 Dept : S
RO total 307.24 Kilometres: 689894 Advisor No. : 001958
Cus total 307.24 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 5135
Complaint : COMPLAINT: Investigate transmission fault.
Cause : CAUSE: Range selector sticking (dust & dirt).
Correction : CORRECTION: Remove selector cover. Remove plunger. Clean all mating surfaces. Replace o-rings. Replace cover gasket, reassemble. Test system.

R.O No. : D8001 R.O Date : 04/05/21 Dept : S
RO total 22,627.00 Kilometres: 687947 Advisor No. : 001958
Cus total 17,535.25 War total 0.00 Int total 5,091.75

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001602
Complaint : COMPLAINT: Carry out B service.
Cause : CAUSE: Preventative maintenance
Correction : CORRECTION: Drained engine oil. Removed old oil filter. installed new oil filter. Removed all fuel filter and installed all new fuel filters. Filled engine oil. Primed

fuel system. Started truck and stopped truck to check oil level. Inspected king pins and bearings. Checked all driveline oils. Checked all uni joints. Greased truck. Cleaned turntable and applied new grease. Checked all brakes. Continued servicing by going through Penske Service Checklist.

Job number : 2 Operation 14DEZZZZZZ002 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 5135 001559
Complaint : COMPLAINT: Repair exhaust heat shield
Cause : CAUSE: Rough roads
Correction : CORRECTION: Removed broken heat shield from truck. Dropped off to Norline to get welded. Picked up from Norline. Fitted heat shield to truck.

Job number : 3 Operation 14DEZZZZZZ003 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001602
Complaint : COMPLAINT: Fit break down air supply fitting to air tank.
Cause : CAUSE: Customer request.
Correction : CORRECTION: Drained air. Removed bung from tank. Ordered and received 5m airline, 2 x olive fittings, 1 x tap and 1 x coupling fitting. Removed step. Measured, cut, drilled and painted bracket to secure coupling to step. Drilled step and attached bracket to step. Ran air lines from primary tank, down the chassis, across the second cross member and to the fuel tank step. Secord air line with cable ties. Fitted coupling, tap and olive fitting to bracket and connected air line. Fitted step to truck. Plugged in shop air. Turned tap and made sure air press gauges moved up, no issues found, no leaks found. Completed paperwork.

Job number : 4 Operation 16OTZZZZZZ001 Desc. MISCELLANEOUS REPAIR
Sale type : C Technician No(s). 001112 5135
Complaint : COMPLAINT: Inspect and repair coolant leak.
Cause : CAUSE: Header tank (mount riv-nuts) turning in radiator plastic top manifold. Coolant lines (plastic) on cooling modules clamps rub through.
Correction : CORRECTION: Drain coolant. Removed from around radiator - top x bottom hoses, side air panels, bonnet stays, support bonnet, air con cooler, inter cooler and hoses, support brackets. Loosen mounts, remove radiator from vehicle. Swap over from old to new radiator - cowling hose fittings. Clean all parts and refit. Replace header tank, refit to radiator. Replace intercooler, refit to radiator. Refit new radiator, intercooler, header tank into vehicle. Refit hoses, sensor, harness, support rods. Renew with header tank hoses. Refill with water, test drive, drain water at block and radiator. Replace coolant. Test system - pressure for leaks (good).

Job number : 5 Operation 16OTZZZZZZ002 Desc. MISCELLANEOUS REPAIR
Sale type : C Technician No(s). 5135
Complaint : COMPLAINT: Repair engine oil leaks.
Cause : CAUSE: Welsh plugs back or top rocker box leaking.
Correction : CORRECTION: When gearbox removed able to clean welsh plug areas. Reseal plug edges with defcon. Test drive no leaks.

Job number : 6 Operation 16OTZZZZZZ003 Desc. MISCELLANEOUS REPAIR
Sale type : C Technician No(s). 5135 001559
Complaint : COMPLAINT: Remove and replace gearbox.
Cause : CAUSE: Faulty air system (rust) plungers sticking. Scored slave valve plunger.
Correction : CORRECTION: Removed from and around gearbox - prop shaft, gear lever, sensor harness, fuel lines, clutch bolts, clutch lever, bell housing bolts. Remove gear box from

vehicle. Remove clutch pack, remove fly wheel, rear seal. Swap over from old gearbox to new, output yoke, oil pump, sensor. Send flywheel for machining. Replace rear main oil seal. Refit flywheel replacing mount bolts torque to spec. Replace pilot bearing. Refit gearbox to engine and secure. Replace clutch kit and secure, adjust. Refit prop shaft, fuel hoses, sensor wiring. Replace gear lever turret gasket and secure. Refit air lines, clutch level. Replace gear box oil. Grease complete vehicle. Test box.

Job number : 7 Operation 07DEZZZZZ002 Desc. ELECTRICAL SYSTEM REPAIR
Sale type : C Technician No(s). 5135
Complaint : COMPLAINT: Repair rear R/H marker light.

Cause : CAUSE: Wire broken off (too-short).
Correction : CORRECTION: Remove light and wiring. Lengthen wire, refit plug. Refit light, secure wiring. Test.

Job number : 8 Operation 88DE Desc. Promotion
Sale type : C Technician No(s). 5135
Complaint : COMPLAINT: Customer gearbox charge.
Cause : CAUSE: Customer request.
Correction : CORRECTION: Customer gearbox charge.

R.O No. : D7789 R.O Date : 09/03/21 Dept : S
RO total 3,493.26 Kilometres: 682737 Advisor No. : 001170
Cus total 3,493.26 War total 0.00 Int total 0.00

Job number : 1 Operation 01DE Desc. Engine
Sale type : C Technician No(s). 001602 001619 001872 001559
Complaint : COMPLAINT: Investigate and rectify hard starting
Cause : CAUSE: Isolator.
Correction : CORRECTION: Disconnected batteries. Removed all cables going to isolator. Removed the four mounting bolts holding the isolator. Mounted new isolator in same spot. Connected new isolator switch which was differently terminated, with leads to get extra length to reach opposite terminals on switch. Terminate main leaks to switch, sort out wiring to isolator switch and re-terminate into new plugs. Connect plugs to isolator switch, check operation ok. Re-secure leads and wiring under cab.

Job number : 2 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001559 001602
Complaint : COMPLAINT: Carry out grease & inspection
Cause : CAUSE: Preventative maintenance.
Correction : CORRECTION: Brought truck into workshop. Chocked wheels, tagged out and isolated. Checked all fluids under bonnet and all driveline oils. Jacked front steer axle up and inspected kingpins. Inspected rad mounts, engine mounts, cab mounts and gearbox mount. Greased truck. Cleaned turntable and applied new grease. Inspected shock absorbers and brakes. Inspected torque rod bushes. Inspected rest of truck and noted down any defects found.

Job number : 3 Operation 14DEZZZZZZ002 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001619
Complaint : COMPLAINT: Investigate intermittent lost of boost pressure
Cause : CAUSE: Blocked air filter.
Correction : CORRECTION: Customer reported intermittent lose of boost pressure on last trip. Checked all boost hoses for security and damage, checked all ok. Removed air cleaner box and checked air cleaner filter. replaced filter due to being severely blocked. Checked change air cooler and checked all ok. Test drove vehicle and couldn't get it to fault.

R.O No. : D7721 R.O Date : 26/02/21 Dept : S
RO total 969.40 Kilometres: 678482 Advisor No. : 001958
Cus total 969.40 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001619 001737
Complaint : COMPLAINT: Investigate and repair purging air dryer.
Cause : CAUSE: Failed air dryer.
Correction : CORRECTION: Removed air supply to air dryer. Removed and fitted air dryer rebuild kit. Refit air dryer to truck and test dryer and cut out. Travel from Penske workshop to Adrian's yard and removed air dryer ASM. Fitted rebuild kit to air dryer at workshop, drive back to Adrian's and fit and test air dryer system.

R.O No. : D7436 R.O Date : 04/12/20 Dept : S
RO total 1,922.64 Kilometres: 671729 Advisor No. : 001958
Cus total 1,922.64 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001737 001559
Complaint : COMPLAINT: Replace worn steer kingpins.
Cause : CAUSE: Worn bottom bushes.
Correction : CORRECTION: Lift and support front axle, remove wheels and brake drums. Disconnect steering arms and tie rods. Remove kingpins and remove steering knuckle assembly. Knocked out old bushes and clean bores. Installed new bushes, refit steering knuckles. Adjust kingpin movement and reassemble steering components. Grease steering components. Refit wheels and torque to spec. Road test and check over and ok.

Job number : 2 Operation 14DEZZZZZZ002 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001559
Complaint : COMPLAINT: Supply replacement turbo heat guard.
Cause : CAUSE: Customer request.
Correction : CORRECTION: Supplied replacement turbo heat guard to customer.

R.O No. : D7430 R.O Date : 02/12/20 Dept : S
RO total 474.60 Kilometres: 671729 Advisor No. : 001958
Cus total 0.00 War total 474.60 Int total 0.00

Job number : 1 Operation 79DED15001112 Desc. D20R2 RECALL 3 FILTR
Sale type : W Technician No(s). 001737
Complaint : COMPLAINT: Removal of Severe Duty High Pressure Fuel Rail Feed Lines - Three-Filter System
Cause : CAUSE: Recall D20R2
Correction : CORRECTION: Lift bonnet, cleaned area around fuel system. Removed old HP fuel lines and bracket. Inspected and installed new HP fuel lines and brackets. Torqued fittings and bolts to spec. Mark bolts and carried out DDEC report download. Start vehicle, inspected for leaks, all okay. Road test vehicle and recheck fuel system, all okay. Took photos.

Warranty : Claim no. Operation no. Claim no. Operation no.
D7430-1 996-R109A

Campaign# : DE-D20R2 Campaign Desc. D20R2 HIGH PRESSURE FUEL
Campaign# : DE-D20R2 Campaign Desc. D20R2 HIGH PRESSURE FUEL

R.O No. : D7404 R.O Date : 30/11/20 Dept : S
RO total 1,250.36 Kilometres: 668021 Advisor No. : 001958
Cus total 1,250.36 War total 0.00 Int total 0.00

Job number : 1 Operation 88DED15001043 Desc. OIL FIL DD15 ADL
Sale type : C Technician No(s). 001737
Complaint : COMPLAINT: Engine service Detroit special service.
Cause : CAUSE: Service.

Correction : CORRECTION: Carry out service as required.
next service, valve clearance check, as customer request.

Job number : 2 Operation 14DEZZZZZZ002 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001737
Complaint : COMPLAINT: Carry out grease and inspection.
Cause : CAUSE: Check over.
Correction : CORRECTION: Check over vehicle and found king pins worn,
quoted parts. Checked air filter and ok. Grease vehicle.

R.O No. : D7231 R.O Date : 15/10/20 Dept : S
RO total 632.54 Kilometres: 0 Advisor No. : 001958
Cus total 632.54 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001559
Complaint : COMPLAINT: Repair leaking park brake valve.
Cause : CAUSE: Worn seals.
Correction : CORRECTION: Received breakdown phone call from customer
saying park brake valve had started leaking excessively and
unable to release brakes. Raised job and PO for replacement
park brake valve. Travelled to pick up valve then to truck
in Berrimah. Removed and replaced park brake valve, refit
dash. Started truck build up air to test and found high
idle pressure switch had also failed and was leaking.
Blanked off temporarily so customer could complete job with
truck. Replaced pressure switch and refit dash back
together. Checked all ok.

R.O No. : D7186 R.O Date : 06/10/20 Dept : S
RO total 4,750.87 Kilometres: 0 Advisor No. : 001958
Cus total 4,750.87 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 999974 001559 001112
Complaint : COMPLAINT: Replace worn/split drive torque rod bushes.

Cause : CAUSE: Rubber bushings peroshed.
Correction : CORRECTION: Remove all torque rods and transverse rods. Press old bushes out and fit new bushes. Refit all rods (4 in total).

Job number : 2 Operation 14DEZZZZZZ002 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001559 999974 001112
Complaint : COMPLAINT: Replace shock absorbers.
Cause : CAUSE: Preventative maintenance.
Correction : CORRECTION: Lift vehicle and place on jack stands. Remove all wheels to gain better access to shock absorbers. Remove old shock absorbers. Remove limiting straps from old shockies and onto new ones. Fit new shock absorbers (6 in total). Refit wheels and torque check all wheel nuts to 450ftlb. Lower vehicle to ground.

Job number : 3 Operation 14DEZZZZZZ003 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 999974 001112
Complaint : COMPLAINT: Remove and inspect steer wheel bearings.
Cause : CAUSE: Customer request to fit new bearings.
Correction : CORRECTION: Lift front axle and place on stands. Remove front wheels and brake drums. Remove front hubs. Pressure clean and degrease hubs. Knock out bearing cups out of hubs and fit new cups. Fit new bearings and hub seals. Refit front hubs and torque retaining nut to 270nm. Fit new locking clip. Refit hub cap with new gasket. Fill hub to correct level with axle oil. Refit brake drums and wheels. Torque wheel nuts to 450ftlb. Road test truck.

R.O No. : D7118 R.O Date : 15/09/20 Dept : S
RO total 1,533.06 Kilometres: 650003 Advisor No. : 001958
Cus total 1,533.06 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001737 001559
Complaint : COMPLAINT: Carry out B service.
Cause : CAUSE: Preventative maintenance.
Correction : CORRECTION: Carried out B service as required.

Job number : 2 Operation 14DEZZZZZZ002 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001559 001737
Complaint : COMPLAINT: Daylight light on bull bar not working..
Cause : CAUSE: Bad connection.
Correction : CORRECTION: Found light had no power, traced wires back and found connection in electrical plug dirty. Cleaned connection and rechecked, ok. Tidy wiring harness.

Job number : 3 Operation 14DEZZZZZZ003 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001559 001737
Complaint : COMPLAINT: Replace windscreen wiper blades and check washers.

Cause : CAUSE: Blades worn, washer jets worn.
Correction : CORRECTION: Checked operation of windscreen washers and found LHS was flowing but no pressure. Checked washers and found the hoses are enlarge and requires replacement. Quoted parts.
Replaced both wiper blades.

Job number : 4 Operation 16OTZZZZZZ001 Desc. MISCELLANEOUS REPAIR
Sale type : C Technician No(s). 001737
Complaint : COMPLAINT: Check accelerator and turbo.
Cause : CAUSE: No Faults.
Correction : CORRRECTION: Checked operation of accelerator and ok, no jumps in readings. Checked turbo and condition and ok.

R.O No. : D6937 R.O Date : 30/07/20 Dept : S
RO total 3,262.08 Kilometres: 639540 Advisor No. : 001958
Cus total 3,262.08 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001619 001737 001559
Complaint : COMPLAINT: Repair air leaks.
Cause : CAUSE: Maintenance.
Correction : CORRECTION: Removed all air supply to air bags. Removed all mounting bolts on air bags and removed bags. Fitted all new compression air fittings into the new air bags. Fitted new air bags into the truck and tested for air leaks. Replaced air fittings at compressor for D2 governor supply line. Removed and replaced air fitting ABV valve to compression fitting tested.

R.O No. : D6895 R.O Date : 16/07/20 Dept : S
RO total 13,439.57 Kilometres: 636100 Advisor No. : 001958
Cus total 13,439.57 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 5135 001559 001872
Complaint : COMPLAINT: Investigate and repair transmission noise.
Cause : CAUSE: Internal gear box wear.
Correction : CORRECTION: Drain gear oil, removed prop shaft, gear lever, air lines, sensor harness, top fuel line, oil filter and housing, sensors, loosen clutch pack. Removed gearbox and clutch assembly. Swap over gearbox, output yoke and housing. Cleaned clutch assembly and flywheel. Refit new gearbox and clutch assembly. Secured bell housing. Secure clutch to flywheel refit hoses, harnesses, fuel lines, oil filter and housing. Refilled gearbox with new oil. Refit prop shaft, refit gear lever and turret. Refit airlines. Adjusted clutch (stop clutch). Adjusted free play (clutch). Test drove.

Job number : 2 Operation 14DEZZZZZZ002 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001872 5135
Complaint : COMPLAINT: Investigate and repair air leaks.
Cause : CAUSE: Internal seals dry and powdery.
Correction : CORRECTION: Air leaks at dash and air hoses left engine. Removed dash panels, removed handbrake valve and replace

internal plungers and seals. Refit valve, refit dash. Removed hose joiners from air lines left of engine. Replace x5 fittings, test and secure.

Job number : 3 Operation 14DEZZZZZZ003 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001872
Complaint : COMPLAINT: Investigate truck not starting.
Cause : CAUSE: No start signal at starter motor.
Correction : CORRECTION: Checked all fuses and relay's, replace one faulty ignition relay which didn't fix the problem. Checked wiring around the starter motor, ok. Replaced damaged conduit on harness under engine, connect laptop to truck. Found no communication, between computers. Trace fault back to loose contact in fuse holder for CPC, MCM and ignition supply. Re-tension contacts, test ok.

R.O No. : D6774 R.O Date : 23/06/20 Dept : S
RO total 6,947.48 Kilometres: 633644 Advisor No. : 001958
Cus total 6,947.48 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001737 000390 001733 001559 0
Complaint : COMPLAINT: Replace damaged split gearbox mounts.
Cause : CAUSE: Aged/perished rubber.
Correction : CORRECTION: Customer complained of a vibration coming through the floor of the cab. Fit blocks of wood and bottle jack underneath the gear box and took weight off rubber mounts. Found mounts to be badly split causing a vibration. Ordered in mounts, via air freight. Removed side cab covers and rear mud guard at from of the cab. Removed clutch lever from the L/H side of the gear box. removed bracket from the bell housing to the R/H gear box mount. Support gear box with the vehicle jack and strap gear box over to one side. removed and replaced passenger side gear box mount. Pulled gear box over to the other side and replaced drivers side gear box mount. refit bell housing to the right hand mount bracket. Refit clutch lever and secure. refit mounting bolts and tighten. Refit side cab covers guards. refit mud guards. Test drove vehicle once all other repairs completed, vibration had been repairs. Rechecked all tight and secure once returned from the test drive.

Job number : 2 Operation 14DEZZZZZZ002 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 000390 001733 001559 001602 0
Complaint : COMPLAINT: Carry out engine service.
Cause : CAUSE: Preventative maintenance/customer request.
Correction : CORRECTION: Completed take 5 and ensured wheels chocked. Carried out engine service on DD15. Removed oil, fuel and air dryer filter. Removed oil and fill as required. primed fuel system and started up engine. Completed all paperwork.

Job number : 3 Operation 14DEZZZZZZ003 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 000390 001733 001559 001602 0
Complaint : COMPLAINT: Replace gear box & diff oils as requested.
Cause : CAUSE: Replace diff oil and trans.
Correction : CORRECTION: Drained diff and trans oil. Replaced diff and trans oil filters. refilled diff and trans with new oil.

Job number : 4 Operation 16OTZZZZZZ001 Desc. MISCELLANEOUS REPAIR
Sale type : C Technician No(s). 000390 001733 001559 001602 0
Complaint : COMPLAINT: Replaced perished leaking gear box oil cooler

hoses.
Cause : CAUSE: Oil leak coming through the hose.
Correction : CORRECTION: Removed leaking oil line from trans to cooler. Got 2x hoses made up. Fitted new lines. Clamp hoses to the chassis rail. Checked over after road test and ok.

Job number : 5 Operation 16OTZZZZZZ002 Desc. MISCELLANEOUS REPAIR
Sale type : C Technician No(s). 000390 001733 001559 001602 0
Complaint : COMPLAINT: Investigate & repair air leaks.
Cause : CAUSE: Loose air fitting on discharge pipe.
Correction : CORRECTION: Went through the vehicle inspected for any air leaking near the LHS engine mount area. Found loose air fitting, tightened fitting and rechecked build up time on air system and ok. Noticed couple of other air leaks, replace air fitting on back of trans and replaced air line in chassis between valve and air tank, had rub pin hole. Went over the vehicle and ok.

Job number : 6 Operation 16OTZZZZZZ003 Desc. MISCELLANEOUS REPAIR
Sale type : C Technician No(s). 001733 001559 001602 001737
Complaint : COMPLAINT: Investigate & repair rattle in passenger side door.
Cause : CAUSE: Loose clamp, re-glue door inner door trim to panel.
Correction : CORRECTION: Removed door panel on LHS, inspect and found loose clamps. Tighten clamps, refit door panel, found outer door panel was loose on inner panel. removed trim and re-glue trim to the inner panel.

R.O No. : D6322 R.O Date : 10/03/20 Dept : S
RO total 8,514.25 Kilometres: 623355 Advisor No. : 001958
Cus total 8,514.25 War total 0.00 Int total 0.00

Job number : 1 Operation 01DE Desc. Engine
Sale type : C Technician No(s). 001737 001559 001872 001602
Complaint : COMPLAINT: Investigate and repair engine squeal.
Cause : CAUSE: Tensioner, fan hub leaking air.
Correction : CORRECTION: Brought truck into workshop. Chocked wheels. Isolated truck. Drained coolant. Removed top radiator hose from radiator. Removed coolant header tank. Removed top of fan cowling. Removed fan. Removed both inner and outer fan belts. Removed belt tensioner. Removed horton. Put new tensioner onto truck. Removed air fitting from old horton and out it onto new horton. Put new horton onto truck. Put new belts onto engine. Put fan back onto horton. Put fan cowling back onto truck. Put top radiator hose back onto radiator. Put header tank back onto radiator. Topped up radiator with the same coolant as drained. Started truck and checked for engine squeal. Took for a test drive. Re-checked coolant level. Parked out back of workshop.

Job number : 2 Operation 01DEZZZZZZ001 Desc. ENGINE REPAIR
Sale type : C Technician No(s). 001559 001872 001602 001737
Complaint : COMPLAINT: Investigate & repair engine fan not working correctly
Cause : CAUSE: Internal breakage inside insulation for high pressure switch and broken wire to low pressure switch.
Correction : CORRECTION: Connected computer to vehicle, inspected temp readings for cooling, intake/exhaust system, readings were ok. Compared readings to another vehicle and ok. Checked operation of fan solenoid manually and no fault with solenoid. Installed and tested fan solenoid and still had fan locked in at cold range. Checked wiring between solenoid and MCM ok had 0.3ohm on wires. Made up test earth

strap and found the fan solenoid switches and fan comes off. Cleaned ground points around engine bay. Rechecked fan operation after removing additional earth lead and found still locked in. Programmed a test MCM controller, installed MCM and still fan locked in. Put original MCM back in the vehicle. Downloaded DDEC report from vehicle, went through history and found the A/C switches and fan switch in cabin, ok. Checked electrical connection in engine bay from fire wall to A/C compressor, found wire to high pressure had no ohm reading between firewall and switch. Went through harness and found a internal breakage inside insulation at electrical connector. Replaced connector and checked operation of fan and ok, fan stays off when cold. Checked operation of over ride switch and ok. Found the A/C system wasn't getting cold, found during inspection previous repair job, wires has corroded. Repaired wiring, reassembled dash and engine bay. Road tested vehicle and ok.

Job number : 3 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001559 001872 001602 001737
Complaint : COMPLAINT: Replace damaged middle inner dash frame
Cause : CAUSE: Cracked plastic.
Correction : CORRECTION: Disassembled middle dash components, removed inner dash Shelton. Fitted new components, reassembled dash components, checked operation of dash switches and ok.

R.O No. : D6241 R.O Date : 18/02/20 Dept : S
RO total 1,241.63 Kilometres: 623046 Advisor No. : 001170
Cus total 1,241.63 War total 0.00 Int total 0.00

Job number : 1 Operation 01DE Desc. Engine
Sale type : C Technician No(s). 001737 001559
Complaint : COMPLAINT: Carry out tune up
Cause : CAUSE: Tune up after cylinder head replacement
Correction : CORRECTION: Removed rocker cover, checked valve clearance and engine brakes, all checked okay. Refit rocker cover. Checked over engine bay and okay.

Job number : 2 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001737 001733
Complaint : COMPLAINT: Repair rear output gearbox oil leak
Cause : CAUSE: Output seal and gasket on housing.
Correction : CORRECTION: Removed tail shafts, removed output flange. Removed output housing. Removed seal and clean housing. Fitted new seal and new gasket. Fitted output housing, refit output flange. Refitted tail shafts. Checked underneath vehicle, all okay. Checked oil level trans.

R.O No. : D5993 R.O Date : 07/01/20 Dept : S
RO total 565.93 Kilometres: 615554 Advisor No. : 001170
Cus total 565.93 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001737
Complaint : COMPLAINT: Replace leaking park brake valve
Cause : CAUSE: Park brake valve bypassing
Correction : CORRECTION: Travelled to site, check operation of park brake and found not holding in. Disassembled dash and removed park brake valve assembly. Change out valve and recheck operation of valve and okay. Assembled dash. Travelled back to workshop. Completed tech report.

R.O No. : D5871 R.O Date : 02/12/19 Dept : S
RO total 13,795.94 Kilometres: 612630 Advisor No. : 001170
Cus total 13,795.94 War total 0.00 Int total 0.00

Job number : 1 Operation 01DEZZZZZZ001 Desc. ENGINE REPAIR
Sale type : C Technician No(s). 001737 001559 001112
Complaint : COMPLAINT: Investigate engine knock coming from engine bay
Cause : CAUSE: Inlet valves sticking open

Correction : CORRECTION: Connected laptop to vehicle and had inactive code for intake manifold temp circuit low. Checked wiring and couldn't fault circuit. Run up engine and found engine knock around front half of engine. Tried a compressor test through DL8 software, on first compression test cylinder #3 and #1 were low, #3 was at 0%. Tried again and result were same again. Checked and carried out idle balance test and found cylinder #3 was very high at 100% and cylinder #1 was high in readings. Removed air box from engine bay. Removed rocker cover. Rotate engine over, while cranking valve operation. Found the back half of intake bridge collars were very tight and fronts were loose on cylinder 1,2 and 3. Carried out a hot set valve clearance. Refit rocker cover back on and tried another compression test, found the readings on cylinder #3 had gone from 0% to 85% and cylinder #1 had gone up from 25% to 85%. Idle balance test on cylinder #3 went down from 100% to 11%. Let engine cool down overnight and perform cold set valve clearance on all valves. Refit rocker cover and air box assembly, perform another compression test and cylinder #1 and #3 went up to 94% to 96% and idle balance test found cylinder #3 went down from 11% to 8%. Road test vehicle and no faults were found, cleared out codes.

Job number : 2 Operation 01DEZZZZZZ002 Desc. ENGINE REPAIR
Sale type : C Technician No(s). 001737 001112
Complaint : COMPLAINT: Remove and replace cylinder head due to valve recession
Cause : CAUSE: valve recession on intake valves.
Correction : CORRECTION: Drained coolant into clean containers. Removed air box assembly. Bar engine over to TDC. Removed rocker gears. Removed injector wiring harness, had found the plastic clip around studs were brittle and cracking. Checked timing on cam shafts and removed cams. Removed cam box, unbolted turbo from flange, removed intercooler pipes. Degas air con system, disconnect wiring to sensor. Removed engine fan and top radiator shroud. Removed cylinder head from engine bay. Inspected underneath of cylinder head and found on intake valves, the valves are recessing into cylinder head. The valve stem seals are leaking oil past. Inspected cam shafts and rocker gear, all okay. Inspected engine block and had found it has old style piston installed. Cleaned engine block head area. Received new cylinder head. Removed intake, exhaust and EGR water manifolds from old cylinder head. Fitted new cylinder head to engine block and torque cylinder head boltts. Fitted cam box to cylinder head, fitted cams and timed cams. Checked cam backlash. Fitted rocker gear and torque to spec, fitted new front and rear injector wring harness. Fitted new rocker cover gasket and fitting rocker cover. Installed intercooler pipes and connected turbo to flange. Fitted engine fan and top shroud. Connected wiring harness to sensor. Carried out valve and exhaust brake clearance. Prime all lube circuit, prime fuel system. Reuse coolant in cooling system. Refit air box assembly. Start engine, run up engine and recheck over, road test vehicle. Recheck over, clean engine bay. Clean core parts and return parts. Completed tech reports.

R.O No. : D5833 R.O Date : 22/11/19 Dept : S
RO total 3,245.00 Kilometres: 611866 Advisor No. : 001170
Cus total 2,819.11 War total 0.00 Int total 425.89

Job number : 1 Operation 01DE Desc. Engine
Sale type : C Technician No(s). 001737
Complaint : COMPLAINT: Investigate long start issue
Cause : CAUSE: Starter motor drawing excessive power when cranking
Correction : CORRECTION: Connected computer to vehicle, checked fuel system when cranking, found the battery voltage was dropping too low. Fuel pressure was okay during cranking. Couple checks with fuel system and couldn't fault the fuel system. Removed battery terminals and load test batteries, all okay. Cleaned and reconnect terminals. Checked voltage at starter motor and found the voltage dropping down to 6 volts during cranking. Checked voltage drop between battery and battery isolator, all okay. Checked between isolator and starter motor and found excessive drop. Tried different battery cables between isolator and starter motor, had made a bit of difference but engine still has long crank. Bypass temp sensor to starter motor due to starter getting quite hot during inspection but still the same long crank. Change out starter motor and fitted new starter motor. Replaced battery cables between chassis and earth on starter motor due to terminal cracking. Rechecked starting, all okay. Tried several times, all checked okay. Cleaned connections on LHS firewall for power distributor module.

Job number : 2 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001737
Complaint : COMPLAINT: Investigate & rectify check engine light on dash
Cause : CAUSE: Intake manifold temp sensor, fan solenoid valve
Correction : CORRECTION: Connected laptop to vehicle, found fault codes 1636-4 intake manifold temp and 647-5 fan stage 1 circuit failed. Checked wiring at fan solenoid valve on firewall and had found the power wire had broken off internal of solenoid. Replaced solenoid valve and pressure sensor due to sensor leaking air. Rechecked fan operation, all okay. Replaced air fitting on filter assembly for fan as it was leaking air. Went through troubleshooting for intake manifold temp sensor and found sensor required replacing. Removed sensor to fit new sensor and the threads had picked up. Cleaned threads and fitted new sensor. Cleared out codes and road test vehicle, all okay.

R.O No. : D5834 R.O Date : 22/11/19 Dept : S
RO total 81.78 Kilometres: 611866 Advisor No. : 001170
Cus total 0.00 War total 81.78 Int total 0.00

Job number : 1 Operation 79DED15001004 Desc. D19R5B Inspection
Sale type : W Technician No(s). 001559
Complaint : COMPLAINT: 996-R195B Inspection Only.
Use this operation for vehicles in Group B where inspection was performed and no additional repairs were needed.
Cause : CAUSE: Recall Campaign
Correction : CORRECTION: Brought vehicle into workshop. Checked date code on HP fuel lines as per instruction, found code to be 131029. Only required inspection. Inspected HP fuel line as per bulletin, no fault found. Marked fuel line with D19R5. Completed tech report.

Warranty : Claim no. Operation no. Claim no. Operation no.

D5834-1 996-R195B

Campaign# : DE-D19R5B-B Campaign Desc. RECALL D19R5 GROUP B HP FUEL LINES
Campaign# : DE-D19R5B-B Campaign Desc. RECALL D19R5 GROUP B HP FUEL LINES

R.O No. : D5640 R.O Date : 02/10/19 Dept : S
RO total 1,520.73 Kilometres: 598930 Advisor No. : 001170
Cus total 1,520.73 War total 0.00 Int total 0.00

Job number : 1 Operation 03DEZZZZZZ001 Desc. INTAKE SYSTEM REPAIR
Sale type : C Technician No(s). 001733 001602 001559 001619
Complaint : COMPLAINT: Remove and replace ride height valves. Adjust driveline angles to spec
Cause : CAUSE: Truck not leveling out properly when loaded and going over bumps/driveways
Correction : CORRECTION: Allocated color zip ties on air lines and fittings to make sure they go back in the correct place. Remove air lines from both valves. Removed valves from chassis. Swapped over air fittings from old valves to the new valves. Put the new valves onto the chassis. Connected air lines to correct fitting. Started truck, build up air and adjusted ride height to correct spec.

Job number : 2 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001559 001602
Complaint : COMPLAINT: Replace air horn not loud enough
Cause : CAUSE:
Correction : CORRECTION: Removed air line from horn. Removed horn from underneath cab. Removed bracket that holds horn onto the cab. Rotated it 180 degrees and tightened it back up. Screwed new horn on underneath cab. Screwed air fitting into the horn. Connected air line. Build up air on truck and tested air horn.

Job number : 3 Operation 05DE Desc. Cooling System
Sale type : C Technician No(s). 001602 001619
Complaint : COMPLAINT: Repair front drive oil cooler adapter leak
Cause : CAUSE: Split o-ring
Correction : CORRECTION: Used color zip ties to identify where both hoses go. Removed plate from around the adapter. Removed both hoses from adapter. Unscrew adapter from out of the diff. Removed split o-ring. Put rubber grease on new o-ring and put it in adapter. Screwed adapter back onto diff. Fit hose back onto adapter and made sure it was tight. Installed plate back on over adapter.

R.O No. : D5542 R.O Date : 11/09/19 Dept : S
RO total 2,836.20 Kilometres: 597372 Advisor No. : 001170
Cus total 2,836.20 War total 0.00 Int total 0.00

Job number : 1 Operation 01DE Desc. Engine
Sale type : C Technician No(s). 001733 001559
Complaint : Carry out engine service
Cause : CAUSE: Due Service
Correction : CORRECTION: Brought vehicle into workshop. Isolated and made safe. Completed engine service and inspection. Parts

used 46 liters shell rimula 15w40 R4. Engine oil filters, fuel filters and air dryer replaced. Gearbox oil inspected for correct levels. Both diffs topped up 1st diff 3 liters, 2nd diff 4 liters. Visual inspection underneath and around vehicle completed. Found bottom gearbox is weeping through gasket and 1st diff has oil leak where the oil cooler hoses go into diff. Customer informed about the concerns and required to monitor. Technician report completed.

Job number : 2 Operation 14DEZZZZZZ002 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001733
Complaint : Remove and replace oil pick up seals
Cause : CAUSE: Seals hard and brittle
Correction : CORRECTION: Drained engine oil into clean container. Loosened sump bolts, lowered sump and removed. Removed intake manifold and pipes. Clean sump and inspected. Removed oil pump to check gear teeth, good no defects identified. Refit oil pump, fitted new o-rings to pipes and intake manifold and assembled. Applied thread locker to bolts and torqued to specification. Applied sealant to four corners of sump and fitted onto engine. Torqued as per specifications. Reconnected dipstick, replenished sump of oil. Hand primping 8 liters through the priming port. Start up engine and monitored, oil pressure correct and no defects identified. Topped up engine oil once shutdown. Area cleaned and technician report completed.

Job number : 3 Operation 06DEZZZZZZ001 Desc. EXHAUST SYSTEM REPAIR
Sale type : C Technician No(s). 001733
Complaint : Replace damaged exhaust lagging
Cause : CAUSE: Exhaust matting had completely falling apart.
Correction : CORRECTION: Picked up new exhaust matting from toms mufflers. Made adjustments to the down hooks. Wrapped around rear flex pipe and tied down with tie down wire.

R.O No. : D5253 R.O Date : 18/07/19 Dept : S
RO total 5,290.49 Kilometres: 583799 Advisor No. : 001170
Cus total 5,290.49 War total 0.00 Int total 0.00

Job number : 1 Operation 01DEZZZZZZ001 Desc. ENGINE REPAIR
Sale type : C Technician No(s). 001602 5135
Complaint : COMPLAINT: Repair compressor oil leak
Cause : CAUSE: Steering pump oil leak, compressor & outlet piping carbon closed.
Correction : CORRECTION: Drained coolant, removed LH mudguard. Removed electrical harness away from comp area. Removed steering pump, drained oil, removed hoses. Removed comp outlet hoses all the way to air dryer. Removed signal air line from comp to air dryer. Removed compressor. Cleaned mount area and parts. Swapped over fittings to new compressor. Replace new compressor, replace seal o-rings. cleaned out carbon up metal hoses. Travelled to Hosepower to make up x 2 flex compressor hoses. Cleaned out fittings from comp and air dryer. Refit compressor hose line, replaced flex lines, secure lines to chassis. Replace air signal line from comp to air dryer. Refit steering pump replacing gasket, secure lines. Topped up oil, bleed system. Refit coolant lines, topped up coolant. Removed horton air line. Fitted broke off at hub. Removed fan, fan belts. Removed horton hub. Removed broken fitting. Refit horton, V-belts, fan. Replaced air line and fitting. Test drive, all all okay. Completed tech report.

R.O No. : D5134 R.O Date : 21/06/19 Dept : S

RO total	226.78	Kilometres:	576493	Advisor No. :	001170
Cus total	226.78	War total	0.00	Int total	0.00

Job number : 1 Operation 07DEZZZZZZ001 Desc. ELECTRICAL SYSTEM REPAIR
Sale type : C Technician No(s). 001559 001733
Complaint : COMPLAINT: Drivers side window not working
Cause : CAUSE: Failed drivers side switch
Correction : CORRECTION: Started removing drivers side door trim as was advised it had failed. Fitted new switch and found window regulator working all good. Refit door trim covering and handles. Refit switch panel and test window winder, checked all good. Organised to return window regulator back to supplier. Completed tech report.

R.O No. : D5117 R.O Date : 17/06/19 Dept : S

RO total 1,413.89 Kilometres: 574724 Advisor No. : 001170
Cus total 1,413.89 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 999974 001619
Complaint : COMPLAINT: Carry out engine service
Cause : CAUSE: Preventative maintenance
Correction : CORRECTION: Carried out engine service. Drained oil and removed oil and fuel filters. Filled new oil, fitted oil filter and fuel filter. Completed tech report.

Job number : 2 Operation 01DE Desc. Engine
Sale type : C Technician No(s). 999974
Complaint : COMPLAINT: Investigate vehicle hard starting
Cause : CAUSE: Starter motor failure
Correction : CORRECTION: Load test and checked batteries. Cleaned all terminals. Checked isolator switch, bridge terminals and test starting. Engine still slow to start. Removed and replaced starter motor. Start vehicle, vehicle starts straight away. Completed tech report.

R.O No. : D5108 R.O Date : 17/06/19 Dept : S
RO total 772.46 Kilometres: 573735 Advisor No. : 001170
Cus total 772.46 War total 0.00 Int total 0.00

Job number : 1 Operation 05DEZZZZZZ002 Desc. COOLING SYSTEM REPAIR
Sale type : C Technician No(s). 5135
Complaint : COMPLAINT: Coolant leak at EGR cooler
Cause : CAUSE: Rubber grommet brittle
Correction : CORRECTION: Travelled to customer. Drained coolant, removed coolant hoses from cooler. Removed intake system above cooler. Removed s-pipe and removed cooler. Cleaned seal areas, replace rubber grommets. Refit cooler hoses, air intake and coolant. Pressure test and run vehicle, all operating correctly.

R.O No. : D5025 R.O Date : 25/05/19 Dept : S
RO total 6,041.75 Kilometres: 68637 Advisor No. : 1074
Cus total 6,041.75 War total 0.00 Int total 0.00

Job number : 1 Operation 01DEZZZZZZ001 Desc. ENGINE REPAIR
Sale type : C Technician No(s). 001112 001737 5135
Complaint : COMPLAINT: Investigate engine low power in high gears
Cause : CAUSE: Faulty delta P sensor
Correction : CORRECTION: Removed delta P sensor. Spoke with tech support regarding low power. Advised to renew and re-calibrate delta P sensor. Test drive truck with diagnostic link connected. Inspected all EGR pressures and voltages.

Job number : 2 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR

Sale type : C Technician No(s). 001112 001737
Complaint : COMPLAINT: Investigate vehicle vibration under load & rear diff oil leak
Cause : CAUSE: Worn uni joints on driveline, worn cab mount. Sealant between housing and diff centre at top.
Correction : CORRECTION: Checked for movement in driveline and no movement. Removed all driveshafts from vehicle. Removed Uni joint caps and found worn cross. Removed uni joints from shafts. Cleaned shafts and fitted new uni joints. Fitted driveline back in and torque bolts as per manual. Replace centre bearing on driveline. Unbolted front engine mount bolts, lifted front of engine and change out mounts. Lowered engine back down and torque engine mount bolts. Inspect rear engine mounts, okay. Removed both front mudguards behind steer tyre. Support RHS of cab, unbolted cab mount bolts and removed. Inspected mount and found rubber started to crack away from inner support. Fitted new mount and bolted mount to vehicle. Removed support and moved to LHS of cab. Support cab, unbolted cab mount and unbolt side plate for cab mount, due to can not removed and unbolt cab mount because of wiring and air pipes in the way. Slide cab mount outwards and fit new cab mount. Fitted side plate to cab and bolted cab mount down. Refit guards.

Cleaned housing on diff, removed diff breather hose and pressure diff and located oil leak at top of housing between diff centre and housing. Drained oil from housing , removed CTI and axle shafts. Removed jack shaft to rear diff. Unbolted diff centre and slide centre back on studs. Cleaned housings and apply new sealant. Slide centre back into place and bolted centre. Refit jack shaft, clean axle shafts and hubs. Fitted axle shaft in with new gasket. Replace both diff oils and filter

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R.O No. : D4986 R.O Date : 16/05/19 Dept : S
RO total 245.54 Kilometres: 566419 Advisor No. : 001170
Cus total 245.54 War total 0.00 Int total 0.00

Job number : 1 Operation 06DEZZZZZZ001 Desc. EXHAUST SYSTEM REPAIR
Sale type : C Technician No(s). 001112
Complaint : COMPLAINT: Replace leaking exhaust clamp & gasket
Cause : CAUSE: Worn out clamp
Correction : CORRECTION: Start parked regen to check over exhaust system. Found leaking clamp going into DPF. Loosen exhaust system. Removed clamp and clean gasket surface. Fitted new gasket and clamp, tighten exhaust system. Carried out complete parked regen. Checked system for leaks, no leaks. Completed tech report and cleaned work area.

R.O No. : D4891 R.O Date : 26/04/19 Dept : S
RO total 1,715.31 Kilometres: 565599 Advisor No. : 000388
Cus total 1,715.31 War total 0.00 Int total 0.00

Job number : 1 Operation 05DEZZZZZZ001 Desc. COOLING SYSTEM REPAIR
Sale type : C Technician No(s). 001112 001733 001737
Complaint : COMPLAINT: Investigate and rectify coolant leak

Cause : CAUSE: Leaking coolant line to compressor/ split bottom radiator hose.

Correction : CORRECTION: 26/04/19 Drained coolant from system. Removed coolant feed and return from compressor and block. Removed fittings and ordered parts. Removed and ordered 90 degrees coolant hose from radiator to engine. Replaced coolant feed and return lines and 4 fittings. Checked all good for leaks. Resecure wiring harness wit cable ties near by. 29/04/19 Fitted new 90 degrees coolant hose from LHS bottom of radiator to engine. Refilled radiator with coolant. Ran engine for 10 min low to medium idle. Topped up coolant. Test drove truck. Checked coolant level and for any coolant leaks. Booked out 20 litres of coolant and left unused coolant in cab.

R.O No. : D4764 R.O Date : 25/03/19 Dept : S
RO total 2,063.66 Kilometres: 558099 Advisor No. : 001170
Cus total 2,063.66 War total 0.00 Int total 0.00

Job number : 1 Operation 01DEZZZZZZ001 Desc. ENGINE REPAIR
Sale type : C Technician No(s). 001112 001737 5135
Complaint : COMPLAINT: Investigate & rectify check engine light
Cause : CAUSE: Internal failure of doser injector
Correction : CORRECTION: Connected laptop to truck. Checked all inactive codes that relate to check engine light. Cleared codes.

Job number : 2 Operation 01DEZZZZZZ002 Desc. ENGINE REPAIR
Sale type : C Technician No(s). 001737 5135 001112
Complaint : COMPLAINT: Investigate & rectify check DPF light
Cause : CAUSE: Internal failure of doser injector
Correction : CORRECTION: Connected laptop to truck. Checked for codes regardin PDF, 2x codes inactive, DPF zone 2 and 3. Removed fuel doser injector. Removed doser block, cleaned all build up carbon from injector area. Fitted new doser block gasket and injector. Remove exhaust, cleaned surface and replaced gasket on AP7 side of exhaust. Carried out parked regen on truck. NOTE: rear clamp gasket still leaking soot. Completed tech report.

R.O No. : D4660 R.O Date : 26/02/19 Dept : S
RO total 2,436.89 Kilometres: 554722 Advisor No. : 001170
Cus total 2,436.89 War total 0.00 Int total 0.00

Job number : 1 Operation 01DE Desc. Engine
Sale type : C Technician No(s). 001737
Complaint : COMPLAINT: Carry out B service
Cause : CAUSE: Preventative maintenance
Correction : CORRECTION: Carried out B service as per Penske service sheets. Replace engine oil and filter. Replace fuel filters. Check oil levels in trans, diffs and power steering. Checked belts, check lights and found LHS lower door side marker not working. Check fo power and ground ok, requires new marker. During service came across couple air fittings leaking air, replace air fittings. Had also noticed oil weeping between power steering pump and compressor. Greased vehicle. Road test vehicle.

Job number : 2 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 001737
Complaint : COMPLAINT: Passenger side window winder not working
Cause : CAUSE: Passenger door switch and driver door regulator
Correction : CORRECTION: Checked passenger door switch and found it had power to switch but no power to window regulator motor. Replace switch and recheck operation, checks ok. Checked driver door switch and no fault with switch, remove door trim and check for power to motor, ok. Removed further door panel and removed regulator asssembly. Fitted new regulator and reassembled door. Check operations, checked all good.

R.O No. : D4547 R.O Date : 06/02/19 Dept : S
RO total 3,690.87 Kilometres: 547164 Advisor No. : 001170
Cus total 3,690.87 War total 0.00 Int total 0.00

Job number : 1 Operation 05DEZZZZZZ001 Desc. COOLING SYSTEM REPAIR
Sale type : C Technician No(s). 001559
Complaint : COMPLAINT: Replace leaking EGR actuator
Cause : CAUSE: Welsh plug at back of actuator weeping coolant.
Correction : CORRECTION: Book out actuator. Part truck inside workshop and isolate, chock wheels. Drained coolant from radiator and engine block. Customer requested coolant be replaced. Removed EGR actuator and repalce with new actuator. Removed coolant filter an found it was still fitted and very blocked up. Refit coolant filter cap with no filter fitted as recommended. Flush out coolin

system 3 times make sure all clean. Refilled new coolant into cooling system. Test drove truck and checked for leaks, checked all good.

R.O No. : D4367 R.O Date : 07/01/19 Dept : S

RO total 3,489.11 Kilometres: 534373 Advisor No. : 001170
Cus total 3,489.11 War total 0.00 Int total 0.00

Job number : 1 Operation 01DE Desc. Engine
Sale type : C Technician No(s). 5135
Complaint : COMPLAINT: Carry out engine service
Cause : CAUSE: Preventative maintenance.
Correction : CORRECTION: Removed and replace engine oil, oil filter, fuel filters, fuel pro filter, air filter and air dryer filter. Grease complete vehicle. Check turntable operation, check gearbox and axle oil levels, steering oil and coolant. Check brakes, prop shafts and under chassis condition, all checked are good. Completed tech report.

Job number : 2 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 5135
Complaint : COMPLAINT: Complete valve set and topend inspection
Cause : CAUSE: Maintenance
Correction : CORRECTION: Removed air filer housing, removed breather hose, coolant manifold, mount plates, brackets remove rocker cover. Checked all lobes, rocker buttons, lock nuts, spring condition an harness. Carried out adjustment of all intake and exhaust valves. Set jack brake. Refit bearing over cover plate. Reift rocker cover. Refit plates, brackets, hoses and air assembly.

Job number : 3 Operation 01DEZZZZZZ001 Desc. ENGINE REPAIR
Sale type : C Technician No(s). 5135
Complaint : COMPLAINT: Diagnose and repair MIL codes, clear history
Cause : CAUSE: EGR actuator wiring under front engine. Rubbed through and actuator lever nut missing.
Correction : CORRECTION: Checked codes on laptop. Most recent EGR fail safe mode lope. Remove harness from EGR actuator to ECM. Remove plasti covers in front sump. Removed harness from cover. Harness multipl rub throughs. Cut away harness, build new data wiring. Reconnect wiring, solder and heat shrink. Wrap wiring in protective sheild tape. Covers wiring with condute. Secured harness. Cleared codes, removed and replace actuator lever, replaced nuts. Download data. Test drive, test all good.

Job number : 4 Operation 05DEZZZZZZ001 Desc. COOLING SYSTEM REPAIR
Sale type : C Technician No(s). 5135
Complaint : COMPLAINT: Return cooling system to factory standard
Cause : CAUSE: Modification hose fitted instead steal pipe
Correction : CORRECTION: Drained coolant, removed rubber hose from heater manifold on top, rocker cover to coolant module. Replace with metal pipe to front mounted. Replace hoses and clamps on both ends. Refilled coolant and pressure test, checked all good.

R.O No. : D4261 R.O Date : 11/12/18 Dept : S
RO total 238.73 Kilometres: 526605 Advisor No. : 001170
Cus total 238.73 War total 0.00 Int total 0.00

Job number : 1 Operation 14DEZZZZZZ001 Desc. MAINTENANCE REPAIR
Sale type : C Technician No(s). 000390
Complaint : COMPLAINT: Remove & replace rear main seal
Cause : CAUSE: Customer request

Correction : CORRECTION: Packed vehicle and travelled to Ken Scott workshop. Met with mechanic and signed in. Removed old rear main seal. Clea flywheel housing and prepped for install. Installed new rear main seal. Completed paperwork and travelled back to workshop.

R.O No. : 1539169 R.O Date : 18/06/15 Dept : S
RO total 1,777.61 Kilometres: 423662 Advisor No. :
Cus total 1,777.61 War total Int total

Job number : 1 Operation G001 Desc.
Sale type : Technician No(s).

Comments : COMPLAINT
OIL LEAK
CAUSE
EGR COOLER COUPLING LEAKING
CORRECTION
REMOVED EGR COOLER AND EGR COOLER COUPLING.
REPLACED EGR COOLER WITH NEW OPERATING.
COMPLAINT
FAUT CODES
CAUSE
EGR VALVE ACTUATOR FAULTY
CAUSE
TEST ALL EGR WIRING NO SHORTS OR OPEN CIRCUITS.
CORRECTION
TESTED EGR ACTUATOR NO SEIZED BUT POWERING UP AND NOT OPERATING.
REPLACED COOLANT.
REPLACED EGR ACTUATOR WITH NEW.
RE-FILLED COOLANT CLEAR CODES AND CHECKED OPERATION ALL OKAY.
DATE:09/04/2015 KM:429394
TRAVEL DISTANCE:840 X1.5=$1260 (1)
TRAVEL TIME:8.5 HRS (148.7 X 8.5=$1263.95)
LABOR FOR EGR COUPLING & SECOND EGR ACTUATOR
6 HRS (6 X 148.7= $892.2) (2)
TOTAL:$1260 + $2156.15=3416.15 (1) + (2)
TRAVEL FROM KARRATHA TO WINNING POOL AND BACK
COMPLAINT
FAUT CODES
CAUSE
EGR VALVE ACTUATOR FAULTY
CORRECTION
TEST ALL EGR WIRING NO SHORTS OR OPEN CIRCUITS.
TESTED EGR ACTUATOR NO SEIZED BUT POWERING UP AND NOT OPERATING.
REPLACED COOLANT.
REPLACED EGR ACTUATOR WITH NEW.
RE-FILLED COOLANT CLEAR CODES AND CHECKED OPERATION ALL OKAY.
DATE:31/03/2015 KM:423662
LABOR FOR FIRST EGR ACTUATOR=3.5 HRS (3.5 X 148.7= $520.45)

R.O No. : 1535596 R.O Date : 04/03/15 Dept : S
RO total 324.40 Kilometres: 423662 Advisor No. :
Cus total 324.40 War total Int total

Job number : 1 Operation M018 Desc.
Sale type : Technician No(s).

Job number : 2 Operation G001 Desc.
Sale type : Technician No(s).

Comments : See attached "Engine Tune Checklist" for job details.

R.O No. : 1533906 R.O Date : 25/02/15 Dept : S
RO total 185.50 Kilometres: 423662 Advisor No. :
Cus total 185.50 War total Int total

Job number : 1 Operation G001 Desc.
Sale type : Technician No(s).

Job number : 2 Operation WAR1 Desc.
Sale type : Technician No(s).

Comments : COMPLAINT
OIL LEAK.
CAUSE
OIL COOLANT MODULE SEAL IS LEAKING .
CORRECTION
REMOVE INTAKE ELBOW.
DISCONNECT ALL WIRING TO OIL COOLANT.
REMOVE AND DRAIN ALL COOLANT PIPES TO REMOVE MODULE.
FIT OIL COOLANT MODULE WITH NEW GASKET AND TORQUE TO SPECS.
INSTALL ALL COOLANT PIPES TO MODULES ASM WITH NEW COUPLING.
RE-INSTALL INTAKE ELBO WITH NEW NEW DELTA P "O" RING.
FIT BACK ALL WIRING TO NEW COOLANT MODULE ASM.
CHANGE OIL THERMOSTATE SEAL DUE TO LEAK AND PLUG.
CHANGE HOSE LEAKING.
CHECK FOR LEAKS NO LEAKS FOUND.

R.O No. : 1496879 R.O Date : 20/11/14 Dept : S
RO total 177.68 Kilometres: 423662 Advisor No. :
Cus total 177.68 War total Int total

Job number : 1 Operation G001 Desc.
Sale type : Technician No(s).

Comments : Complaint
Leaking rear crankshaft seal
Oil leak
Cause

Wear and tear
Correction
Pack tools in ute and travel to Daimlers yard in Welshpool. Locate vehicle and re

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R.O No. : 1380743 R.O Date : 04/06/14 Dept : S
RO total 1,282.43 Kilometres: 423662 Advisor No. :
Cus total 1,282.43 War total Int total

Job number : 1 Operation G001 Desc.
Sale type : Technician No(s).

Job number : 2 Operation WAR1 Desc.
Sale type : Technician No(s).

Job number : 3 Operation G010 Desc.
Sale type : Technician No(s).

Comments : COMPLAINT
OIL LEAK.
CAUSE
CAM BOX SEAL IS LEAKING OIL.
CORRECTION
STEAM CLEAN AND ROAD TEST.
REMOVE AIR INTAKE ASM.
REMOVE ROCKER COVER AND INJECTOR HARNESS.
REMOVE INJECTOR TUBES X6.
DISCONNECT ALL WIRING WITH GEAR BOX.
LOOSEN ROCKER ASM.
REMOVE CAM CAPS AND CAMSHAFTS.
REMOVE CAM BOX ASM.
INSTALL NEW INJECTOR TUBE SEALS.
INSTALL INJECTOR TUBES AND TORQUE TO SPECS.
INSTALL NEW HP FUEL KIT AND TORQUE.
FIT FUEL RAIL BANJO BOLT AND TORQUE.
INSTALL CAMBOX WITH NEW SEAL.
FOUND BANJO SCREW ON THE HP FUEL RETURN LINE LEAKING.
TOOK OFF AND REPLACED WASHES.
RE-INSTALLED ALL REMOVED PARTS.
STEAM CLEAN AND ROAD TEST CHECKED FOR LEAKS NO LEAKS FOUND.
COMPLAINT
TURBO LEAK
CAUSE
TURBO CENTRE CLAMP LEAKING AND CRACKED
CORRECTION
STEAM CLEAN AND ROAD TEST.
CONNECT LAPTOP AND CHECKED FAULT CODES.
FOLLOW TROUBLESHOOTING AND DIAGNOSES.
REMOVED ALL HOSES AND ALL REQUIRED PARTS TO REMOVE TURBO.
DRAINED COOLANT.
REMOVED TURBO MOUNT NUTS.
RE-FITTED NEW TURBO AS TURBO WAS CRACKED OIL FEED AND COOLANT FEEB "O" RING.

RE-FITTED TURBO AND CONNECTED ALL HOSES CLAMPS PIPES.
FILLED TRUCK WITH COOLANT PRESSURE TESTED.
ROAD TEST AND STEAM CLEAN NO LEAKS FOUND.
NOTE:OPERATION LABOR CODE IS CLAIMED ON ANOTHER CLAIM.
COMPLAINT
EXHAUST LEAK.
CAUSE
EXHAUST MANIFOLD CENTER PIECE IS CRACKED AND LEAKING.
CORRECTION
REMOVED TURBO.
REMOVED EGR PIPES BREATHER PIPES.
WATER PUMP HOSE.
REMOVE EXHAUST MANIFOLD AND RE-FITTED WITH NEW STUDS BELLOW CLAMPS.
FIT ALL REMOVED PARTS BACK.
STEAM CLEAN AND ROAD TEST.
CHECKED FOR LEAKS NO LEAKS FOUND.
COMPLAINT
OIL LEAK
CAUSE
SUMP SEAL IS LEAKING OIL.
CORRECTION
DRAIN OIL AND COOLANT.
REMOVE SUMP SEAL AND CLEAN SURFACE.
RE-FITTED SUMP SEAL WITH NEW GASKET.
STEAM CLEAN AND ROAD TEST NO LEAKS FOUND.

R.O Date : 31/07/13 Dept : S
85.00 Kilometres: 423662 Advisor No. :
85.00 War total Int total

Job number : 1 Operation M018 Desc.
Sale type : Technician No(s).

Comments : See attached "Engine Tune Checklist" for job report.

Customer RO history total	282,434.02
Warranty RO history total	556.38
Internal RO history total	5,612.44
Complete RO history total	288,602.84

RE-FITTED TURBO AND CONNECTED ALL HOSES CLAMPS PIPES.
FILLED TRUCK WITH COOLANT PRESSURE TESTED.
ROAD TEST AND STEAM CLEAN NO LEAKS FOUND.
NOTE:OPERATION LABOR CODE IS CLAIMED ON ANOTHER CLAIM.
COMPLAINT
EXHAUST LEAK.
CAUSE
EXHAUST MANIFOLD CENTER PIECE IS CRACKED AND LEAKING.
CORRECTION
REMOVED TURBO.
REMOVED EGR PIPES BREATHER PIPES.
WATER PUMP HOSE.
REMOVE EXHAUST MANIFOLD AND RE-FITTED WITH NEW STUDS BELLOW CLAMPS.
FIT ALL REMOVED PARTS BACK.
STEAM CLEAN AND ROAD TEST.
CHECKED FOR LEAKS NO LEAKS FOUND.
COMPLAINT
OIL LEAK
CAUSE
SUMP SEAL IS LEAKING OIL.
CORRECTION
DRAIN OIL AND COOLANT.
REMOVE SUMP SEAL AND CLEAN SURFACE.
RE-FITTED SUMP SEAL WITH NEW GASKET.
STEAM CLEAN AND ROAD TEST NO LEAKS FOUND.

R.O No. : 1199338 R.O Date : 31/07/13 Dept : S
RO total 85.00 Kilometres: 423662 Advisor No. :
Cus total 85.00 War total Int total

Job number : 1 Operation M018 Desc.
Sale type : Technician No(s).

Comments : See attached "Engine Tune Checklist" for job report.

Customer RO history total 282,434.02
Warranty RO history total 556.38
Internal RO history total 5,612.44

Complete RO history total 288,602.84

Line	Bin1	Bin2	Part Information		Total Count	Multi Count	Entered Count	Recount
1	AC07E	AC07F	A4700903151	FUEL FILTER KIT 2	12	Y	0	_____
6	AC08A1		8929529	TURBO MOUNT GASKE	6	Y	3	_____
15	AC08B1		23506325	HOSE	15	Y	11	_____
20	AC08B5		29549658	SWITCH ASSY PRESS	1		1	_____
23	AC08C3		23522281	SLEEVE & BOLT SUM	32	Y	12	_____
38	AC08E3		999900010000	NUT	60	Y	36	_____