

Townsville: 74-76 Northern Link Cct, Shaw (Bohle) Q 4818  
Ayr: 9 Bird St, Ayr Q 4807  
Postal Address: PO Box 766, Deeragun Q 4818  
Phone: (T) 4789 4888 (A) 4783 5233 Email: info@fabbrodiesel.com.au  
Authorisation Number: AU61212  
ABN: 75 617 303 527



## CUSTOMER JOB NO. 26126

Shane W & Glenda M Pattel  
1 Constable Court  
KIRWAN QLD 4817

Site: 757LQJ  
Order No.:

### Description

**Work requested: Engine change out**

**Hours: n/a**

**Kilometres: 1890192**

Vehicle was booked into FDS Townsville workshop to have engine changed out  
Truck was moved into workshop for engine change out. Started by dropping air bags to chain back axle up and set up hoist. Removed back chassis plate, drive shaft and PTO. Drive shaft bolts were spinning on the nut side, had to fiddle around with it to remove bolts. Drained cooling system  
Removed all hose work on gear box and separated gear box from engine, removed gearbox and inspected for cleaning and parts replacement  
Started removing all pipe work, hosing and wiring from engine to remove engine from truck. Removed old engine from truck and set up side by side with new engine supplied by customer. Split ac condenser on intercooler and removed all hoses from radiator. Removed radiator and intercooler from truck.

Degreased and pressure washed truck frame and hoses etc. Removed all engine mounts and replaced with new ones. Cable tied and cleaned up all wiring and hoses. Assisted Simon with swapping parts over to new engine. Required new starter motor wire. Removed old one and drove to Kenny's to pick up and fit new one. Assembled radiator and intercooler. Whilst radiator was out, replaced gear box cooler hoses on the front of truck and replaced clamps. Removed clutch servo setup, cleaned surfaces and installed new one.

Reinstalled engine back into truck hooking all hoses and wiring up. Installed piping, fitted new air cleaners and re installed radiator. Utilised new header tank and all new hoses. Reinstalled ac condenser back onto intercooler. Once both engine and radiator was installed checked over work. Reinstalled gearbox, hoses and wiring. Hooked up drive shaft with new bolts and PTO. Dropped gearbox oil and carried out service/filter change on gear box . Refilled with oil (sae 50). Filled engine oil and coolant.

Completed final inspection over work and started truck. Checked for leaks, all okay. Degreased and washed engine gearbox and radiator ready for test drive. Had difficulty with ride height valve and air bags as they kept raising airbags to max height. Found one of the air bags were split. inspected and found LH ride height valve to be faulty.  
Sourced and Drove to WTG and Multispares to pick up parts. Removed split air bag and reinstalled with new. Installed new ride height valve.

Drove to Mack and picked up PCV and heater hoses that were on back order. Drove vehicle into workshop and carried out draining of coolant in preparation for hose replacement. Once coolant was drained, notified customer of contaminants i coolant from engine change out, sourced new coolant, removed and replaced hoses on PCV canister. Removed and replaced heater hoses into cabin, Filled with coolant and ran to temp. Checked for leaks, all okay. Job complete

Item	Quantity	Unit Price	Total
Consumables	1.00	\$25.00	\$25.00
Freight	1.00	\$210.00	\$210.00
Flywheel	1.00	\$261.00	\$261.00
M8 x 17 x 1.6 Nylon Flat Washer	2.00	\$0.44	\$0.88

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Item	Quantity	Unit Price	Total
Make battery link as required.	1.00	\$57.08	\$57.08
Mitsubishi Starter Motor 24V 12TH CW	1.00	\$1,088.75	\$1,088.75
Fitting	1.00	\$19.36	\$19.36
Pressure tins of Volvo Green paint	4.00	\$41.59	\$166.36
Hose Clamp 14-27mm (10pck sold Per Clamp)	1.00	\$37.85	\$37.85
Hose Clamp 11-22mm (Per Clamp)	8.00	\$3.34	\$26.72
Spigot Bearing	1.00	\$43.30	\$43.30
M8 X150 Black Socket Head Capscrew	2.00	\$8.01	\$16.02
M8 Zinc Hex Flange Nut	2.00	\$0.32	\$0.64
Hose	2.00	\$223.72	\$447.44
Hose	1.00	\$228.07	\$228.07
Ring	1.00	\$639.09	\$639.09
Oil Filter Kit	1.00	\$53.92	\$53.92
Hose	1.00	\$54.20	\$54.20
Oil Hose	1.00	\$190.75	\$190.75
Oil Hose	1.00	\$202.14	\$202.14
Clamp	2.00	\$66.64	\$133.28
3/8 Clear Vinyl Tube	4.00	\$2.70	\$10.80
20L Volvo VCS Coolant	120.00	\$7.87	\$944.40
Valvoline All Fleet Engine Oil 15W-40	33.00	\$6.99	\$230.67
MaxLife Multi-Vehicle ATF 20L	7.00	\$8.52	\$59.64
Hose clamp perf 14-32m	6.00	\$1.78	\$10.68
Hose Clamp 14-27mm (10pck sold Per Clamp)	4.00	\$3.70	\$14.80
Filter	1.00	\$27.13	\$27.13
Filter	1.00	\$33.10	\$33.10
Dipstick	1.00	\$22.56	\$22.56
Screw	3.00	\$5.11	\$15.33
Repair engine fan plug.	1.00	\$211.75	\$211.75
GEARBOX CALIBRATIONS AFTER NEW ENGINE. FITTED, CLEAR FAULTS. AT FABBRO DIESEL SERVICE. LOAD COMPUTER AND DROVE TO FABBRO DIESEL WORKSHOP, CONNECTED VCADS COMPUTER AND READ VEHICLE INFORMATION. REMOVED ENGINE CONTROL UNIT FROM OLD ENGINE. CONNECT AND CARRIED OUT 28423-3 MID 128 PROGRAMMING. REPLACED CONTROL INIT OKAY. CARRIED OUT 17050-3 CHANGE COMPONENT UPDATE ENGINE SERIAL NUMBER, OKAY. NEW SERIAL NUMBER 9142658. FOUND ACTIVE FAULT FOR CRANKCASE PRESSURE. FOUND NO SENSOR FITTED. REMOVED SENSOR FROM OLD ENGINE. FABBRO FITTED FITTED SENSOR AND CODE INACTIVE. CLEARED ALL FAULTS OKAY. CHECKED AND FOUNS NO WARNINGS ON DISPLAY. CARRIED OUT CLUTCH CALIBRATION, NEW CLUTCH FITTED. CARRIED OUT CLUTCH, GEARBOX PULLING POSITION CALIBRATION. RETURNED TO WESTERN TRUCK GROUP WORKSHOP,	1.00	\$596.13	\$596.13
Fitting M16 x 12 Nipple	1.00	\$42.21	\$42.21
Fuel Filter	1.00	\$106.25	\$106.25
Nipple 12.7	1.00	\$38.06	\$38.06
Elbow Nipple	1.00	\$51.71	\$51.71
Hose	2.00	\$213.96	\$427.92
Hose	2.00	\$187.89	\$375.78

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Item	Quantity	Unit Price	Total
Hose Clamp 21-38mm (Per Clamp)	8.00	\$4.06	\$32.48
Hose Clamp S/S 38MM-63MM	4.00	\$1.88	\$7.52
Vartorque C4-50 Gear Oil (60L)	15.00	\$7.16	\$107.40
Labour - Townsville Workshop	93.00	\$110.00	\$10,230.00

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<b>Sub-Total ex GST</b>	\$17,498.17
<b>GST</b>	\$1,749.82
<b>Total inc GST</b>	\$19,247.99

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