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 www.brownandhurley.com.au

*** DOCUMENT COPY ***

Invoice To: 11028
 CUMMINS WARRANTY ACCOUNT (02)
 P O BOX 3078
 DARRA
 QUEENSLAND 4076

Deliver To:

SERVICE TAX INVOICE

Document No.:	2640568
Document Date:	27/09/2022
Repair Order No.:	735960
RO Creation Date:	20/07/2022
Rego No.:	XV18SU
Make/Model:	2021 Kenworth K200
Vehicle ID No.:	6F5000000MA468923
Fleet No:	
Odometer:	548780
Engine Hours:	
Delivery Date:	31/03/2021
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Page:	1 of 3

K039 Reported engine using coolant, diagnose and report

176-t07-1019 Coolant Overflow

Root Cause of Failure(s):

Head Gasket blown Cylinder 1 and Low Liner Cylinder 2

Access:

Air cleaner (including bracket)

Crossmember under oil pan

Other Claimables:

5575513 - Bolt Stretched

1324.05 & 1324.20 - Contaminated with coolant

Additional Comments:

Drove truck into workshop. Lowered bullbar and jacked cab over. Followed troubleshooting for Coolant overflow.

Step 1: Carried out combustion leak test - Air getting into system

Step 1.1: Removed fuel injectors following procedure 006-026. Fuel injector o-rings and sleeves not damaged

Step 1.2: Inspect cylinder head gasket and found it blown at number 1. Measured liner heights and found all liners to be below spec. Cylinder 1: 0.006" 2: 0.004" 3: 0.005" 4: 0.006" 5: 0.005" 6: 0.006". Cleaned block and found cracks on liner seats. Sublet to Cummins to cut counterbores. Found fretting and cracks evident at counterbores 1-6. Cut counterbore ledges at cylinder 1-6. Fit 0020" shims. Fit liners and O-rings and measure liners all at 0.012". Refit removed components following procedure 002-004. Fill with new oil. Run up. Put bonnet over and bullbar up. Road test, carry out download.

- Travel to Brown and Hurley

- JSA. Prepare parts and tooling. Inspect Counter bore ledges

- Cannot download ECM as engine isolated

- Cleaned and inspected 6x counter ledges

- Found fretting and cracks evident at counterbores 1-6 and will require machining

- Cut counterbore ledges at cylinders 1-6

- Fit 0020" shims

- Fit liners and o-rings, all ok

- Measured all in spec as per liner sheet (0.012")

- Clean work area

- Complete paperwork

- Return travel to Cummins

Part Number	Part Description	Quantity	Total Cost
1324.20	PREMIUM BLUE 8600 20L OIL	2.00	
1324.05	PREMIUM BLUE 8600 5L OIL	1.00	
LF14000NN	LUBE FILTER	1.00	
2866337CUM	GASKET 5"	2.00	
5693720	KIT SERVICE LINER REPAIR	1.00	
5298564	SHIM	6.00	

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www.brownandhurley.com.au

KYOGLE | DARRA | TOWNSVILLE | COFFS HARBOUR | ROCKHAMPTON | YATALA | TOOWOOMBA | TAMWORTH | CABOOLTURE

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3391271	LUBRIPLATE 105 GREASE 100Z TBE	
5575513	SCREW HEXAGON FLANGE HEAD CAP	1.00
LOC34238	LOCTITE 5699 GREY MAXX	1.00
4101451	SCREW HEX HEAD CAP	3.00
Parts Totals:		19.00

Technician Labour Postings

Technician	Job Code	Type	Clocked In Date	Start Time	Finish Time	Hours Worked
SSINGH	k038-1	W	22/07/2022	19:37:00	20:29:00	.8667
RBROWN	k038-1	W	27/07/2022	11:39:00	12:30:00	.8500
HDOLLMAN	k038-1	W	28/07/2022	13:00:00	13:47:00	.7833
RBROWN	k038-1	W	28/07/2022	13:33:00	16:11:00	2.6333
HDOLLMAN	k038-1	W	28/07/2022	15:30:00	16:10:00	.6667
TGUNNING	k038-1	W	28/07/2022	21:51:00	23:19:00	1.4667
SSINGH	k038-1	W	28/07/2022	22:36:00	23:31:00	.9167
HBOYD	k038-1	W	05/08/2022	08:00:00	10:00:00	2.0000
HBOYD	k038-1	W	05/08/2022	10:15:00	12:30:00	2.2500
HBOYD	k038-1	W	08/08/2022	08:00:00	10:00:00	2.0000
HBOYD	k038-1	W	09/08/2022	08:30:00	10:00:00	1.5000
RBROWN	k039	R	27/07/2022	13:17:00	15:36:00	2.3167
HDOLLMAN	k039	R	28/07/2022	16:10:00	18:46:00	2.6033
HDOLLMAN	K039-2	R	28/07/2022	18:46:00	20:31:00	1.7500
HBOYD	K039-2	R	09/08/2022	13:00:00	16:21:00	3.3500
HDOLLMAN	K039-3	R	28/07/2022	20:31:00	21:42:00	1.1833
SPRASAD	K039-4	R	01/08/2022	15:25:00	17:09:00	1.7333
SPRASAD	K039#	W	01/08/2022	14:58:00	15:25:00	.4500
SPRASAD	K039#	W	02/08/2022	08:00:00	10:00:00	2.0000
SPRASAD	K039#	W	02/08/2022	10:15:00	12:09:00	1.9000
SPRASAD	K039#	W	02/08/2022	13:00:00	18:03:00	5.0500
SSINGH	K039#	W	02/08/2022	13:12:00	13:45:00	.5500
SPRASAD	K039#	W	02/08/2022	18:21:00	18:31:00	.1667
SSINGH	K039#	W	02/08/2022	19:01:00	20:05:00	1.0667
SPRASAD	K039#	W	02/08/2022	19:01:00	20:27:00	1.4333
SPRASAD	K039#	W	03/08/2022	08:00:00	10:00:00	2.0000
SPRASAD	K039#	W	03/08/2022	10:15:00	12:30:00	2.2500
RFARAJ	K039#	W	03/08/2022	12:54:00	13:13:00	.3167
SPRASAD	K039#	W	03/08/2022	13:00:00	17:31:00	4.5200
RFARAJ	K039#	W	03/08/2022	16:01:00	17:00:00	.9833
HBOYD	K039#	W	09/08/2022	10:15:00	12:30:00	2.2500
HBOYD	K039#	W	11/08/2022	08:00:00	08:58:00	.9667
NSTIPANCIC	K039#	W	12/08/2022	13:00:00	15:00:00	2.0000
NSTIPANCIC	K039#	W	12/08/2022	15:15:00	19:30:00	4.2500
NSTIPANCIC	K039#	W	13/08/2022	09:31:00	10:00:00	.4800

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NSTIPANCIC K039#	W	13/08/2022	10:15:00	12:53:00	2.6300
NSTIPANCIC K039#	W	15/08/2022	06:30:00	07:49:00	1.3200
NSTIPANCIC K039#	W	15/08/2022	08:28:00	10:00:00	1.5333
NSTIPANCIC K039#	W	15/08/2022	10:15:00	12:30:00	2.2500
NSTIPANCIC K039#	W	15/08/2022	13:00:00	18:36:00	5.6000
NSTIPANCIC K039#	W	16/08/2022	07:00:00	10:00:00	3.0000
NSTIPANCIC K039#	W	16/08/2022	10:15:00	12:30:00	2.2500
NSTIPANCIC K039#	W	16/08/2022	13:00:00	15:00:00	2.0000
NSTIPANCIC K039#	W	17/08/2022	06:42:00	09:20:00	2.6333
RBROWN K046	R	27/07/2022	13:00:00	13:17:00	.2833
RBROWN KWBSL	R	27/07/2022	07:00:00	10:00:00	3.0000
RBROWN KWBSL	R	27/07/2022	10:15:00	11:39:00	1.4000
HBOYD misc	R	03/08/2022	08:52:00	10:00:00	1.1333

Advisor: Kylie Hunter

Workshop Trading Hours: Mon-Fri 6:30am to 9:15pm, Sat 8am to 12pm
*** Refrigerant trading authority number: AU13435 ***

Bank Account Details for Direct Payments:

Bank: CBA Branch: Kyogle

BSB: 062563 Account No.: 10059314 Account Name: The Brown and Hurley Group Pty Ltd

Customer's Signature

PARTS	
LABOUR	
MISC. CONSUMABLES	\$0.00
ENVIRONMENTAL LEVY	\$0.00
SUBLET	
OTHER CHARGES	\$0.00
TOTAL GST CHARGED	\$0.00
TOTAL Incl. GST	