SHIP TO

PAGE YOUR ORDER NUMBER INVOICE DATE INVOICE NUMBER CUSTOMER NUMBER STORE 05-04-15 05WO0073471 05 C13708 SHIP VIA DOC.DATE REFERENCE NO. 03-18-15 0518297 SERIAL NUMBER METER READING MACHINE ID NO. UNIT NUMBER MAKE MODEL 7263.0 M005900 *CAT0140HLCCA02760* 140H 0910

DESCRIPTION

WORK DONE IN BMC SHOP ABERDEEN SD
TROUBLESHOOT TRANSMISSION
COMPLAINT: TRANSMISSION SLIPPING IN 3RD GEAR AND
6TH GEAR FORWARD.
CORRECTION: INSPECTED TRANSMISSION FILTER AND
TRANSMISSION SCREEN AND MAGNET, FOUND LARGE PIECES
OF CLUTCH MATERIAL AND PISTON SEALING RING IN THE
SCREEN. CLEANED, INSTALLED SCREEN, CHECKED
PRESSURE AND FOUND EXTREMELY LOW CLUTCH PRESSURE
IN CLUTCH #5. REASON FOR TRANSMISSION SLIPPING WAS
AN INTERNAL FAILURE OF THE TRANSMISSION.

SEG. 01

N/R

TOTAL LABOR
LESS 50%-LABOR
SEGMENT 01 TOTAL

REMOVE& INSTALL DIFFERENTIAL
COMPLAINT: INTERNAL FAILURE OF TRANSMISSION AND
EXCESSIVE METALLIC MATERIAL PRESENT IN
DIFFERENTIAL SCREEN.
CORRECTION: REMOVED THE TRANSMISSION AND THE
DIFFERENTIAL FROM THE MACHINE AND INSTALLED THE

QUANTITY

PART NUMBER



UNIT PRICE

EXTENDED PRICE

SHIP TO

CAMPBELL COUNTY SOUTH DAKOTA HIGHWAY DEPARTMENT

STORE	CUSTOMER NUMBER	3	YOUR ORDER NUMBER	INVOICE DATE	INVOICE NUMBER	PAGE
05	C13708			05-04-15	05WO0073471	2
HIP VIA	010100		DOC.DAT	E	REFERENCE NO.	
			03-18-1	5	0518297	
UNIT NUMBER	MAKE	MODEL	SERIAL NUMBER	METER READING	MACHINE I	D NO.
0910	AA	140H	*CAT0140HLCCA02760*	7263.0	M0059	00
QUANTITY	PART NUMBER	N/R	DESCRIPTION	UNIT PRICE	EXTENDED	PRICE

COMPONENTS AFTER	THE	REPAIRS WERE MADE TO THE
TRANSMISSION AND	THE	DIFFERENTIAL.
1 2J-3506		NUT S
1 5K-9090		SEAL O RING S
1 5P-3863		SEAL O RING S
1 6V-7981		BOLT S
3 6V-9746		SEAL O RING S
1 8F-6230		SEAL N
1 328-3655		ELEMENT AS S
25 1556213BT		30W TRANS TOTE S
23 233022322		TOTAL PARTS SEG. 04
		LESS 50%-PARTS
		TOTAL LABOR SEG. 04
		LESS 50%-LABOR
		SEGMENT 04 TOTAL

REPAIR POWER SHIFT TRANSMISSION

COMPLAINT: INTERNAL TRANSMISSION FAILURE.

CAUSE: THE NO.1 AND 2 CLUTCH PACKS BURNT UP. NO.2

CLUTCH VALVE STICKING.

RESULTANT DAMAGE: FAILED CLUTCHES AND DEBRIS IN

SHIP TO

CAMPBELL COUNTY SOUTH DAKOTA HIGHWAY DEPARTMENT

STORE	CUSTOMER NUMBE	R	YOUR ORDER NUMBER	INVOICE DATE	INVOICE NUMBER	PAGE
05	C13708			05-04-15	05WO0073471	3
SHIP VIA			DOC.DATE		REFERENCE NO.	
			03-18-15		0518297	
UNIT NUMBER	MAKE	MODEL	SERIAL NUMBER	METER READING	MACHINE I	D NO.
0910	AA	140H	*CAT0140HLCCA02760*	7263.0	M0059	
QUANTITY	PART NUMBER	N/R	DESCRIPTION	UNIT PRICE	EXTENDED	PRICE

SYSTEM.

SYSTEM.

CORRECTION: DISASSEMBLED TRANSMISSION, THE NO.1

AND 2 CLUTCHES WERE BURNT UP, THE REST OF THE
CLUTCHES LOOKED AND MEASURED OK. THE GEARS ALL
LOOKED OK. REPLACED THE BEARINGS AND SEALS IN THE
PUMP. THE VALVES WERE CLEANED AND INSPECTED, THE
NO.2 VALVE PISTON WOULD NOT MOVE FREELY AND THE
INNER VALVE BODY WAS BROKEN IN THE NO.7 CLUTCH
AREA. THE NO.2 SPOOLS WERE REPLACED ALONG WITH THE
ONE VALVE BODY AND ALL PRESSURE SPRINGS AND
ORIFICES. THE VALVES WERE PUT BACK TOGETHER WITH
NEW SEALS AND ALL ELECTRICAL PARTS. THE MAIN
HOUSINGS WERE TAKEN APART AND CLEANED OUT. THE HOUSINGS WERE TAKEN APART AND CLEANED OUT. THE CLUTCHES WERE REASSEMBLED AND INSTALLED IN THE MAIN HOUSINGS. AIR TESTED CLUTCH PACKS AND VERIFIED NO LEAKS WERE PRESENT. INSTALLED THE VALVES AND PUMP. THE PARKING BRAKE LOOKED OK AND WAS RESEALED AND INSTALLED. REPLACED THE TEMP AND SPEED SENSORS. RESEALED THE OIL LINE FITTINGS.

1	3E-8700	SENSOR G-ELE	N
2	3J-1907	SEAL	S
1	4J-0520	SEAL-O-RING	S
1	4J-5477	SEAL O RING	S
6	5C-7423	SCREW	S
1	5K-9090	SEAL O RING	S
5	6I-8911	DISC FRIC	N
6	6I-8912	DISC FRIC	N
6	6I-9502	PLATE-CLUTCH	N
8	6V-3965	NIPPLE A	S

SHIP TO

CAMPBELL COUNTY SOUTH DAKOTA HIGHWAY DEPARTMENT

STORE	CUSTOMER NUMBER	1	OUR ORDER NU	JMBER		IN.	IVOICE DATE	INVOICE NUMBER	PAGE
05	C13708						05-04-15	05WO0073471	4
IIP VIA	0.0.00				DOC.DATE			REFERENCE NO.	
					03-18-15			0518297	
UNIT NUMBER	MAKE	MODEL	SE	RIAL NUMBER			METER READING	MACHINE	ID NO.
0910	AA	140H	*CATO1	40HLCCAC	2760*		7263.0	M0059	900
QUANTITY	PART NUMBER	N/R	OATIOI	DESCRIPTI			UNIT PRICE	EXTENDED	PRICE
2 6V-9' 1 7G-54 2 7M-84 4 7T-9 1 8E-7' 2 8E-7' 1 8E-98 2 9U-86 1 9U-99 4 9W-74 2 108-9 1 161-3 1 75-3 1 183-6 2 188-9 1 191-8 1 191-8	746 153 185 570 713 714 520 315 995 410 5751 5751 5927 7055 3893 5775 3893 5775 3303	SEAL O SPRING SEAL SPRING ORIFICE PISTON ORIFICE SPRING PLATE SPRING DISC FR DISC-FR BODY VALVE G SPOOL A SENSOR VALVE G SENSOR BEARING KIT-DT TOTA LESS	SELER IC ICTIO P-SOL S. GP P-SOL G-SPD KIT GASKE L PARTS 50%- L LABOR	SNSSSSNSNNNNNNNSSNN PARTS	SEG.				

SHIP TO

CAMPBELL COUNTY SOUTH DAKOTA HIGHWAY DEPARTMENT

STORE	CUSTOMER NUMBER	3	YOUR ORDER NUMBER	INVOICE DATE	INVOICE NUMBER	PAGE
05	C13708			05-04-15	05WO0073471	5
SHIP VIA	0.0.00		DOC.DATE		REFERENCE NO.	
			03-18-15		0518297	
UNIT NUMBER	MAKE	MODEL	SERIAL NUMBER	METER READING	MACHINE II	NO.
0910	AA	140H	*CAT0140HLCCA02760*	7263.0	M0059	00
QUANTITY	PART NUMBER	N/R	DESCRIPTION	UNIT PRICE	EXTENDED	PRICE

SEGMENT 51 TOTAL

REPAIR DIFFERENTIAL

COMPLAINT: BEVEL GEAR BEARING SPUN IN DIFFERENTIAL

HOUSING AND BEARING FOR THE SPIDER GEARS WERE

FAILED AND SEIZED TO THE CROSS SHAFT.

CORRECTION: DISASSEMBLED DIFFERENTIAL, CLEANED AND
INSPECTED COMPONENTS. THE DIFFERENTIAL WAS
ASSEMBLED WITH 2 NEW SPIDER GEARS AND BEARINGS,
THE OTHER TWO GEARS WERE REUSED, THE ONE
DIFFERENTIAL HOUSING WAS DAMAGED DUE TO THE CONE
SPINNING ON THE HOUSING, IT WAS REPLACED. THE DIFF
LOCK PLATES AND DISC WERE REUSED, NEW PISTON SEALS
INSTALLED, THE DIFFERENTIAL HOUSING BOLTS WERE ALL
INSTALLED WITH LOCK-TITE AND TIGHTENED TO SPEC.
THE PINION WAS ASSEMBLED NEXT WITH NEW BEARINGS,
THE ROLLING TORQUE WAS ADJUSTED TO 10INLBS, THE
NUT WAS LOCKED IN PLACE, NEW YOKE WAS INSTALLED
AND NEW LIP SEAL IN THE HOUSING. THE PINION
ASSEMBLY WAS INSTALLED IN THE DIFFERENTIAL HOUSING
WITH THE SAME THICKNESS OF SHIMS THAT WAS REMOVED,
THE DIFFERENTIAL WAS THEN INSTALLED IN THE HOUSING
AND ADJUSTED. THE PRELOAD OF THE DIFFERENTIAL WAS
SET UP THEN THE BACK LASH WAS ADJUSTED TO .010",
THE DIFFERENTIAL WAS ROTATED AND THE COLLAR

SHIP TO

CAMPBELL COUNTY SOUTH DAKOTA HIGHWAY DEPARTMENT

STORE	CUSTOMER NUMBE	R	YOUR ORDER NUMBER	INVOICE DATE	INVOICE NUMBER	PAGE
05	C13708			05-04-15	05WO0073471	6
SHIP VIA			DOC.DATE		REFERENCE NO.	
			03-18-15	i	0518297	
UNIT NUMBER	MAKE	MODEL	SERIAL NUMBER	METER READING	MACHINE I	D NO.
0910	AA	140H	*CAT0140HLCCA02760*	7263.0	M0059	00
QUANTITY	PART NUMBER	N/R	DESCRIPTION	UNIT PRICE	EXTENDED	PRICE

WERE TIGHTENED TO SPEC, THE LOCKS WERE THEN INSTALLED IN THE SIDE ADJUSTMENTS ON THE DIFFERENTIAL AND TIGHTENED TO SPECIFICATION. CUP S 1 1J-2860 1J-4757 CONE 1P-2636 N CUP 1P-2662 CONE N 2H-5001 RING S 2K-5106 S 1 SHIM PACK 2K-5109 4F-7389 GASKET NSS RING 1 4H-6520 RING 2 4J-2506 SEAL 8888 3 4J-5477 SEAL O RING 5L-2030 CONE 1 CUP 5L-2031 5P-2503 CUP-ROLLER 1 N 6F-0698 DOWEL N 1 N 1 KIT-SEAL 6G-5979 N 7D-8225 SEAL N 7D-8226 SEAL 2 7S-4571 SEAL-O-RING N 2 8D-4064 WASHER N 2 8M-4438 SEAL O RING S 8T-8883 SEAL O RING N 1 8W-1592 YOKE A N 8X-2528 HOUSING N 1 N 2 WASHER 8X-4641 9B-0143 N LOCK

SHIP TO

CAMPBELL COUNTY SOUTH DAKOTA HIGHWAY DEPARTMENT

CONE-	S LIP TYP S SPL TAP N N AS N	A02760*		05-04-15 METER READING 7263.0 UNIT PRICE	05WO0073471 REFERENCE NO. 0518297 MACHINE IE M00590 EXTENDED I	00
140H RING- BOLT SEAL- CONE- PINIO	*CAT0140HLCC/DESCRIF SEAL N SLIP TYP S SPL TAP N N AS N	03-18-15 ER A02760*		7263.0	0518297 MACHINE II M00590	00
140H RING- BOLT SEAL- CONE- PINIO	*CAT0140HLCC/DESCRIF SEAL N SLIP TYP S SPL TAP N N AS N	ER 402760*	5	7263.0	MACHINE III	00
140H RING- BOLT SEAL- CONE- PINIO	*CAT0140HLCC/DESCRIF SEAL N SLIP TYP S SPL TAP N N AS N	A02760*		7263.0	M00590	00
RING- BOLT SEAL- CONE- PINIO	SEAL N S LIP TYP S SPL TAP N N AS N					
RING- BOLT SEAL- CONE- PINIO	SEAL N S LIP TYP S SPL TAP N N AS N	TION		UNIT PRICE	EXTENDED I	PRICE
BOLT SEAL-: CONE-: PINIO	N AS N					
SPIDE TO' LE; TO' LE; OV	TAL PARTS SS 50%-PARTS TAL LABOR SS 50%-LABOR ERSEAS IN	SEG.	06			
	TO LE TO LE OV TO	TOTAL PARTS LESS 50%-PARTS TOTAL LABOR LESS 50%-LABOR OVERSEAS IN TOTAL MISC CHGS	TOTAL PARTS SEG. LESS 50%-PARTS TOTAL LABOR SEG. LESS 50%-LABOR OVERSEAS IN TOTAL MISC CHGS SEG.	TOTAL PARTS SEG. 06 LESS 50%-PARTS TOTAL LABOR SEG. 06 LESS 50%-LABOR OVERSEAS IN TOTAL MISC CHGS SEG. 06	TOTAL PARTS SEG. 06 LESS 50%-PARTS TOTAL LABOR SEG. 06 LESS 50%-LABOR OVERSEAS IN TOTAL MISC CHGS SEG. 06	TOTAL PARTS SEG. 06 LESS 50%-PARTS TOTAL LABOR SEG. 06 LESS 50%-LABOR OVERSEAS IN

REPAIR FINAL DRIVE

BOTH SIDES

REMOVED AND DISASSEMBLED THE FINAL DRIVES AND INSPECTED BECAUSE OF THE DIFFERENTIAL FAILURE.

SHIP TO

CAMPBELL COUNTY SOUTH DAKOTA HIGHWAY DEPARTMENT

STORE	CUSTOMER NUMBE	R YOUR	ORDER NUMBER		11	IVOICE DATE	INVOICE NUMBER	PAGE
05	C13708					05-04-15	05WO0073471	8
P VIA	010700			DOC.DATE			REFERENCE NO.	
T TIN			1	03-18-15			0518297	
UNIT NUMBER	MAKE	MODEL	SERIAL NUMBE	R		METER READING	MACHINE II	NO.
0910	AA	140H	*CAT0140HLCCA	02760*		7263.0	M0059	
QUANTITY	PART NUMBER	N/R	DESCRIPT	ION		UNIT PRICE	EXTENDED	PRICE
CLEANED F NEW BEARI 12 1S-9 12 8X-8	NGS. 110	OMPONENTS AND BEARING A WASHER TOTAL	N N PARTS	SEG.	16			
		LESS TOTAL I LESS	50%-PARTS LABOR 50%-LABOR	SEG.	16			

REPLACE TC/TRANS OIL COOLER
REPLACED THE TRANSMISSION OIL COOLER BECAUSE IT
WAS CONTAMINATED FROM THE TRANSMISSION FAILURE. CORE AS OIL N
CORE CHARGE N
CORE CREDIT N 1 10R-5665 1-N 2 129-2861 GASKET

SEG. 10 TOTAL PARTS LESS 50%-PARTS

SEGMENT 16 TOTAL

SHIP TO

CAMPBELL COUNTY SOUTH DAKOTA HIGHWAY DEPARTMENT

STORE	CUSTOMER NUMB	ER	YOUR ORDER NUMBER	INVOICE DATE	INVOICE NUMBER	PAGE
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SHIP VIA			DOC.DATE		REFERENCE NO.	
			03-18-15		0518297	
UNIT NUMBER	MAKE	MODEL	SERIAL NUMBER	METER READING	MACHINE	NO.
0910	AA	140H	*CAT0140HLCCA02760*	7263.0	M0059	00
QUANTITY	PART NUMBER	N/R	DESCRIPTION	UNIT PRICE	EXTENDED	PRICE

TOTAL LABOR LESS

SEG. 10 LESS 50%-LABOR SEGMENT 10 TOTAL

KIDNEY LOOP POWER SHIFT TRANSMISSION COMPLAINT: TRANSMISSION WAS RECONDITIONED, OIL PARTICLE COUNT NEEDED BE AT OR BELOW ISO 16/13. PARTICLE COUNT NEEDED BE AT OR BELOW ISO 16/13.
CORRECTION: OPERATED MACHINE WHILE CHECKING AND
ADJUSTING PRESSURES, TESTED PARTICLE COUNT IN THE
OIL AND IT WAS AT 19/15. REMOVED TRANSMISSION
FILTER AND INSPECTED IT AND INSTALLED NEW FILTER.
OPERATED MACHINE, CONNECTED KIDNEY LOOP, RAN
MACHINE, TESTED PARTICLE COUNT ON THE OIL
THROUGHOUT KIDNEY LOOP CYCLE, RAN KIDNEY LOOP
UNTIL OIL WAS AT SPEC. (OIL COUNT WAS AT 16/12)
REPLACED MACHINE TRANSMISSION OIL FILTER, RAN
MACHINE DOWN ROAD, TESTED PARTICLE COUNT AGAIN AND
IT WAS BELOW SPEC. REMOVED KIDNEY LOOP FITTINGS
FROM MACHINE. FROM MACHINE.

4 1R-0755 2 328-3655 9 1556213BT

FILTER A S ELEMENT AS 30W TRANS TOTE S

SHIP TO

CAMPBELL COUNTY SOUTH DAKOTA HIGHWAY DEPARTMENT

STORE	CUSTOMER NUMBE	:R	YOUR ORDER NUMBER	INVOICE DATE	INVOICE NUMBER	PAGE
05	C13708			05-04-15	05WO0073471	10
SHIP VIA			DOC.DATE		REFERENCE NO.	
			03-18-15		0518297	
UNIT NUMBER	MAKE	MODEL	SERIAL NUMBER	METER READING	MACHINE II	NO.
0910	AA	140H	*CAT0140HLCCA02760*	7263.0	M0059	00
QUANTITY	PART NUMBER	N/R	DESCRIPTION	UNIT PRICE	EXTENDED	PRICE

TOTAL PARTS
LESS 50%-PARTS
TOTAL LABOR
LESS 50%-LABOR
SEGMENT 07 TOTAL

SEG. 07

SEG. 07

ADJUST TRANSMISSION PRESSURE(S)

PRESSURE(S)
INSTALLED TEST PLATE UNDER COVER OF TRANSMISSION
VALVE BODY PLATE SO THE INITIAL PRESSURES COULD BE
CHECKED, STARTED MACHINE, ALLOWED TRANSMISSION OIL
TO WARM TO OPERATING TEMP THEN CHECKED THE PUMP
AND INITIAL TRANSMISSION PRESSURES. THE PUMP
PRESSURE WAS ADJUSTED TO 435PSI. FOUND THE INITIAL
PRESSURES FOR CLUTCHES 5, 6 AND 7 WERE ALL ABOUT
15PSI LOW, THE SOLENOID MANIFOLD WAS THEN REMOVED
AND ONE SHIM WAS REMOVED FROM EACH SPOOL, THE
MANIFOLD WAS REINSTALLED, THE INITIAL PRESSURES
WERE RECHECKED AND ADJUSTED AS FOLLOWS: PORT
4=57PSI, 5=56PSI, 6=53PSI, 7=48PSI, 8=50PSI. AFTER
INITIAL PRESSURES WERE ADJUSTED THE PLATE WAS
REMOVED AND THE TRANSMISSION PRESSURES WERE

SHIP TO

CAMPBELL COUNTY SOUTH DAKOTA HIGHWAY DEPARTMENT

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			03-18-15		0518297	
UNIT NUMBER	MAKE	MODEL	SERIAL NUMBER	METER READING	MACHINE II	D NO.
0910	AA	140H	*CAT0140HLCCA02760*	7263.0	M0059	00
QUANTITY	PART NUMBER	N/R	DESCRIPTION	UNIT PRICE	EXTENDED	PRICE

CHECKED, THE FOLLOWING ARE THE PRESSURES FOR EACH CLUTCH/TEST PORT 3=325PSI, 4=280PSI, 5=305PSI, 6=390PSI, 7=340PSI, 8=405PSI, 9=385PSI ALL PRESSURES WERE IN SPEC. THE COVER WAS INSTALLED OVER THE TRANSMISSION VALVE BODY. SEG. 18

TOTAL LABOR LESS 50%-50%-LABOR

SEGMENT 18 TOTAL

REPLACE CRANKSHAFT REAR SEAL REPLACED REAR CRANKSHAFT SEAL WHEN THE TRANSMISSION IS REMOVED. REMOVED THE FLYWHEEL, EXTRACTED THE SEAL, POLISHED SEALING SURFACES, SET UP TOOLING AND PRESSED NEW SEAL INTO PLACE AND INSTALLED THE FLYWHEEL. 1 226-4757

SEAL GP-CSHF EAL GP-CSHF S
TOTAL PARTS SEG. 08

SEGMENT 08 TOTAL

SHIP TO

CAMPBELL COUNTY SOUTH DAKOTA HIGHWAY DEPARTMENT

STORE	CUSTOMER NUMBE	R	YOUR ORDER NUMBER	INVOICE DATE	INVOICE NUMBER	PAGE
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UNIT NUMBER	MAKE	MODEL	SERIAL NUMBER	METER READING	MACHINE II	D NO.
0910	AA	140H	*CAT0140HLCCA02760*	7263.0	M0059	00
QUANTITY	PART NUMBER	N/R	DESCRIPTION	UNIT PRICE	EXTENDED	PRICE

REPLACE ENG OUTPUT DR AS/COUPLING REPLACED THE DRIVE COUPLING DAMPER BETWEEN THE TRANSMISSION AND ENGINE, WHEN THE TRANSMISSION WAS REMOVED, BECAUSE THE SPRINGS WERE WORN.

1 422-2480 COUPLING AS N

UPLING AS N TOTAL PARTS

SEG. 09

F/R LF

REPLACE TURBOCHARGER REPLACED THE TURBOCHARGER BECAUSE THE INNER SEALS

WERE FAILED, ALLOWING OIL INTO THE ENGINE INTAKE.

1 OR-9956 TURBO GP N CORE CHARGE CORE CREDIT N N 1-CLAMP N

1 1W-2431 1 8C-3089 SEAL FACE KIT GASKET S T GASKET N
TOTAL PARTS 1 416-2498

SEG. 11 F/R LE

SHIP TO

CAMPBELL COUNTY SOUTH DAKOTA HIGHWAY DEPARTMENT

YOUR ORDER NUMBER INVOICE DATE PAGE STORE CUSTOMER NUMBER INVOICE NUMBER 05-04-15 05WO0073471 13 05 C13708 SHIP VIA DOC.DATE REFERENCE NO. 0518297 03-18-15 MACHINE ID NO. UNIT NUMBER SERIAL NUMBER METER READING MAKE MODEL 7263.0 M005900 *CAT0140HLCCA02760* 140H EXTENDED PRICE PART NUMBER DESCRIPTION UNIT PRICE

SEGMENT 11 TOTAL

1858.27 T

REPLACE HOSES & LINES
TRANSMISSION
REPLACED THE TWO TRANSMISSION OIL COOLER LINES,
TWO FILTER LINES, VENT HOSE AND DIFFERENTIAL
SUCTION HOSE BECAUSE THEY WERE HARD AND RUBBING IN
SPOTS. TIED UP NEW HOSES AFTER THEY WERE ROUTED
INTO PLACE.

TTATO	TIME .		
3	4J-0520	SEAL-O-RING	S
1	4J-0522	SEAL-O-RING	S
2	5D-1026	CLAMP	S
2	5K-9090	SEAL O RING	S
47	5P-0765	CM-HOSE STK	S
2	6V-9746	SEAL O RING	S
2	8T-4983	CLAMP	S
1	8X-7317	HOSE	S
199	122-6872	L/M HOSE-IN	S
2	124-2102	COUPLING	N
2	124-2121	COUPLING	S
2	124-2122	COUPLING	N
1	176-8199	COUPLING AS	N
1	180-4712	COUPLING	N
		TOTAL PARTS	

SEG. 12

SHIP TO

CAMPBELL COUNTY SOUTH DAKOTA HIGHWAY DEPARTMENT

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05	C13708			05-04-15	05WO0073471	14
SHIP VIA			DOC.DATE		REFERENCE NO.	
			03-18-15		0518297	
UNIT NUMBER	MAKE	MODEL	SERIAL NUMBER	METER READING	MACHINE II	NO.
0910	AA	140H	*CAT0140HLCCA02760*	7263.0	M0059	00
QUANTITY	PART NUMBER	N/R	DESCRIPTION	DESCRIPTION UNIT PRICE		PRICE

S

4.00

HOSE LABOR TXBL TOTAL MISC CHGS SEGMENT 12 TOTAL

SEG. 12

F/R LBR

REPLACE GASKET/RESEAL VALVE COVER BASE COMPLAINT: OIL LEAKING FROM ENGINE VALVE COVER BASE.

CORRECTION: REMOVED AIR CLEANER, MUFFLER, AND OIL FILTER STEEL LINES TO GAIN ACCESS TO VALVE COVER, REMOVED VALVE COVER AND BASE FROM ENGINE, CLEANED SEALING SURFACES, HAD TO HEAT UP AND DRIVE OUT THREE OF THE SPACERS FOR THE VALVE COVER BASE. INSTALLED BASE WITH NEW GASKET, HOOKED UP INJECTOR WIRING, ADJUSTED THE INTAKE/EXHAUST VALVE CLEARANCES TO SPECIFICATION AND ADJUSTED THE INJECTOR HEIGHT DIMENSIONS TO SPECIFICATION. VALVE CLEARANCES WERE SLIGHTLY LOOSE. RESEALED AND INSTALLED VALVE COVERS AND INSTALLED THE REST OF THE COMPONENTS THAT WERE REMOVED TO GAIN ACCESS TO THE VALVE COVER BASE.

3 5K-9090 3 5P-5678 8 7C-8292 SEAL O RING M-SEAL STK

ISOLATOR

SHIP TO

CAMPBELL COUNTY SOUTH DAKOTA HIGHWAY DEPARTMENT

STORE	CUSTOMER NUMBER	YO	UR ORDER NUMBER		INVOICE DATE	INVOICE NUMBER	PAG
05	C13708				05-04-15	05WO0073471	15
VIA				DOC.DATE		REFERENCE NO.	
				03-18-15		0518297	
UNIT NUMBER	MAKE	MODEL SERIAL NUMBER		BER	METER READING	METER READING MACHINI	
0910	AA	140H	*CAT0140HLCC	A02760*	7263.0	M005900	
YTITMAUG	PART NUMBER	N/R	DESCRI	PTION	UNIT PRICE	EXTENDED	PRICE
3 9Y-	-1758 -7215 9-5309		S N S PARTS	SEG. 13 F/R LE	BR		
	COOLANT HOSE/LINE RADIATOR HOSES	SS	ENT 13 TOTAL				
BRITTLE.		DECAUSE IN	EI WERE HARD	AND			
1 4N- 17 122 1 124 1 124	7431 2-6869 3-1956 3-1980 3-8946	HOSE L/M HOSE COUPLING COUPLING CM HOSE I	S S SULK S	GEG 14			
1.00	,	HOSE I	PARTS LABOR TXBL MISC CHGS ENT 14 TOTAL	SEG. 14 F/R LB SEG. 14	BR .		

SHIP TO

CAMPBELL COUNTY SOUTH DAKOTA HIGHWAY DEPARTMENT

STORE	CUSTOMER NUME	BER	YOUR ORDER NUMBER	INVOICE DATE	INVOICE NUMBER	PAGE
05	C13708			05-04-15	05WO0073471	16
SHIP VIA			DOC.DATE		REFERENCE NO.	
			03-18-15		0518297	
UNIT NUMBER	MAKE	MODEL	SERIAL NUMBER	METER READING	MACHINE I	D NO.
0910	AA	140H	*CAT0140HLCCA02760*	7263.0	M0059	00
QUANTITY	PART NUMBER	N/R	DESCRIPTION	UNIT PRICE	EXTENDED	PRICE

REPLACE SERPENTINE BELT COMPLAINT: HOLES IN THE SERPENTINE DRIVE BELT. CAUSE: ROCKS CAUGHT BETWEEN BELT AND PULLEYS. CORRECTION: REMOVED DRIVE SHAFT FROM FRONT OF ENGINE TO THE HYDRAULIC PUMP. REMOVED FRONT ENGINE ENGINE TO THE HYDRAULIC PUMP. REMOVED FRONT ENGIN COMPARTMENT PANELS, REMOVED BELTS, INSPECTED ALL IDLERS AND BELT TENSIONER PULLEY. FOUND THE TENSIONER WAS NOT RUNNING SQUARE. INSTALLED NEW TENSIONER, REPLACED THE COVER OVER THE A/C COMPRESSOR BECAUSE IT WAS BROKE, INSTALLED NEW BELT, BOLTED COMPARTMENT PANELS AND DRIVE SHAFT BACK INTO POSITION AND VERIFIED THE BELT WAS RUNNING STRAIGHT ON THE PULLEYS. 1 190-0649 1 194-5141 TIGHTENER S

GUARD - A/C

N

1 312-8933

BELT

N

TOTAL PARTS

SEG. 15

SEGMENT 15 TOTAL

F/R LBR

ADJUST STEERING LINKAGE

SHIP TO

CAMPBELL COUNTY SOUTH DAKOTA HIGHWAY DEPARTMENT

STORE	CUSTOMER NUMBER		YOUR ORDER NUMBER	INVOICE DATE	INVOICE NUMBER	PAGE
05	C13708			05-04-15	05WO0073471	17
SHIP VIA			DOC.DATE		REFERENCE NO.	
			03-18-15		0518297	
UNIT NUMBER	MAKE	MODEL	SERIAL NUMBER	METER READING	MACHINE II	NO.
0910	AA	140H	*CAT0140HLCCA02760*	7263.0	M0059	00
QUANTITY	PART NUMBER	N/R	DESCRIPTION	UNIT PRICE	EXTENDED	PRICE

TOTAL LABOR SEG. 19 LESS 100%-LABOR SEGMENT 19 TOTAL

TRAVEL TO/FROM MACHINE
SERVICE MILEAGE FOR DRIVING TO THE MACHINE AND
TROUBLESHOOTING TRANSMISSION SLIPPING COMPLAINT.

1.00
SERVICE CALL Z10
TOTAL MISC CHGS SEG. 9A
SEGMENT 9A TOTAL

APPR SALES GOODWILL

COVERED REPAIRS
TAX EXEMPTION LICENSE 466000328