

# DAKOTA TRUCK AND FARM SERVICE

1604 20TH AVE SE  
MINOT, ND 58701  
701-852-5481

Invoice # 1-236925 Dealer ID# Page 1 of 3

Date 12/13/19

Emp: 1-146 CW / 1-19 SALES

In Oct 24, 2019 8:43 AM

Out Dec 13, 2019 8:17 AM

**\*\* DUPLICATE INVOICE \*\***

**Sold To:**  
MCLEAN COUNTY HIGHWAY DEPT  
PO BOX 1108  
WASHBURN ND 58577  
Business Phone: 701-463-2422

**Ship To:**

**Unit #:** 13-082  
**Vehicle:** 00 IHC#13-082 2554--NEW ESN# S-7046f  
**License:** G82123  
**Mileage:** In: 159108 Out: 0  
**Vin#:** 1HTGBADR9YH269072  
**PO#:**

Salesman	Mechanic	Part #	QTY	Description	Parts	Labor	FET	Total
146	8	.590	0.50	SHOP LABOR RUN DIAGNOSTICS	0.00	123.00	0.00	61.50
146	8	.590	0.50	SHOP LABOR UPDATE ECM	0.00	123.00	0.00	61.50
146	8	.590	9.45	SHOP LABOR TROUBLESHOOT ISSUE	0.00	123.00	0.00	1,162.35
146	178	2596706C92	1.00	2596706C92 ENGINE	17,011.32	0.00	0.00	17,011.32
146	178	1664726C2	4.00	1664726C2 INSULATOR	22.13	0.00	0.00	88.52
146	178	1822588C1	1.00	1822588C1 FILTER	37.84	0.00	0.00	37.84
146	178	2513521C1	1.00	MU-BR BELT	39.07	0.00	0.00	39.07
146	178	AF986	1.00	AF986 FILTER	55.08	0.00	0.00	55.08
146	178	AF982M	1.00	AF982M AIR FILTER	129.12	0.00	0.00	129.12
146	178	485794C2	1.00	485794C2 RAD HOSE 43deq(533465c1 is sil	32.09	0.00	0.00	32.09
SILICONE VERSION: 533465C1								
146	178	ZBL3500044	1.00	ZBL3500044 HEATER DT 94&NEWER OLD#8608903	152.12	0.00	0.00	152.12
146	178	1830033C2	1.00	1830033C2 TENSIONER	202.59	0.00	0.00	202.59
146	178	77250S PER INCH	23.00	77250S 2 1/2 IN.SILICONE (EH22640)	3.88	0.00	0.00	89.24
146	178	1818727C1	1.00	1818727C1 ORING (AIR COMP MOUNT)	3.41	0.00	0.00	3.41
146	178	1820353C1	1.00	1820353C1 ORING (WATER FILTER HEAD)	4.08	0.00	0.00	4.08
146	178	1830172c1	1.00	1830172C1 SEAL	22.21	0.00	0.00	22.21
146	178	1822135C1	1.00	1822135C1 RING	1.24	0.00	0.00	1.24
146	178	1664728C1	2.00	1664728C1 INSULATOR	168.72	0.00	0.00	337.44
146	178	1664723C3	2.00	1664723C3 INSULATOR	83.98	0.00	0.00	167.96
146	178	.610	1.00	FREIGHT FREIGHT	16.46	0.00	0.00	16.46
146	178	2513521C1	1.00	MU-BR BELT	40.86	0.00	0.00	40.86
146	178	.610	1.00	FREIGHT FREIGHT	54.00	0.00	0.00	54.00
146	178	1822135C1	1.00	1822135C1 RING	1.24	0.00	0.00	1.24
146	178	1844447c1	1.00	1844447C1 ORING	14.06	0.00	0.00	14.06
146	178	727622	1.00	SPO HEAT SHRINK 1/0-2/0 1FT R	12.82	0.00	0.00	12.82
146	178	736156	3.00	736156 CABLE BATT 4/0	20.58	0.00	0.00	61.74
146	178	728119	1.00	728119 LUG 4/0	12.69	0.00	0.00	12.69
146	178	728004	1.00	SR-9 BUTT CONNECTOR 4/0	6.94	0.00	0.00	6.94
146	178	2010013C1	1.00	2010013C1 HEADER PIPE	277.63	0.00	0.00	277.63
146	178	.610	1.00	FREIGHT FREIGHT	51.00	0.00	0.00	51.00
146	178	1826587C1	1.00	1826587C1 GASKET (PAN)	61.20	0.00	0.00	61.20
146	178	3553803C2	1.00	3553803C2 CLAMP	33.99	0.00	0.00	33.99
146	178	sf418	1.00	SF418 SS FLEX PIPE 4X18"	45.66	0.00	0.00	45.66
146	178	3553803C2	1.00	3553803C2 CLAMP	33.99	0.00	0.00	33.99
146	178	flt40pla	2.00	SR-8 BAND CLAMP	10.13	0.00	0.00	20.26
146	178	.580	4.00	MISC MECHANIC .580	4.48	0.00	0.00	17.92
146	178	ph/20821-12-12	2.00	ph/20821-12-12 fitting	55.39	0.00	0.00	110.78
146	178	1658835C91	1.00	SR-5 STRAP KIT 1710.1760.1810	26.73	0.00	0.00	26.73
146	178	8600310	1.00	8600310 ALTERNATOR NEW24SI 160A HINGE	222.12	0.00	0.00	222.12
146	178	3535968C1	1.00	3535968C1 FUEL ADAPTER (voss)	39.17	0.00	0.00	39.17
146	178	ZW3220X8X4	1.00	SR-13 BUSHING ( ZSTSPRB-8-4 )	3.70	0.00	0.00	3.70

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**Unit #:** 13-082  
**Vehicle:** 00 IHC#13-082 2554--NEW ESN# S-70466  
**License:** G82123  
**Mileage:** In: 159108 Out: 0  
**Vin#:** 1HTGBADR9YH269072  
**PO#:**

Salesman	Mechanic	Part #	QTY	Description	Parts	Labor	FET	Total
146	178	3559213c2	2.00	3559213C2 FITTING 5/8 TUBE 90DEG	32.47	0.00	0.00	64.94
146	178	3571312C1	3.00	3571312C1 FUEL TUBE 5/8 inch	16.21	0.00	0.00	48.63
146	178	tec5012h26r	1.00	tec5012h26r battery cable eve 2/0x3/8	11.79	0.00	0.00	11.79
146	178	tec7020a5-1	12.00	tec7020a5-1 battery cable red 2/0	10.57	0.00	0.00	126.84
146	178	691273C1	2.00	691273C1 GASKET	4.70	0.00	0.00	9.40
146	178	1812559C1	1.00	1812559C1 SEAL	11.14	0.00	0.00	11.14
146	178	690835C1	1.00	690835C1 CLAMP	12.89	0.00	0.00	12.89
146	178	.580	1.00	MISC MECHANIC ORING	1.09	0.00	0.00	1.09
146	178	787147	1.00	787147 harness	3.46	0.00	0.00	3.46
146	178	725115	4.00	SR-22 BLUE CONN W/ HT SHRINK	1.17	0.00	0.00	4.68
146	178	3557858C1	2.00	3557858C1 INTAKE CLAMP 4"TO 4 1/2"	32.30	0.00	0.00	64.60
146	178	3557857c1	1.00	3557857C1 INTAKE CLAMP	39.95	0.00	0.00	39.95
146	178	HK1913	1.00	SR-13 FRAME CLAMP	2.59	0.00	0.00	2.59
146	178	.590	28.20	SHOP LABOR R&R ENGINE	0.00	123.00	0.00	3,468.60
146	178	.590	2.50	SHOP LABOR SWAP OVER ENGINE PARTS	0.00	123.00	0.00	307.50
146	178	.590	1.00	SHOP LABOR STEAM RAD ASSEMBLY	0.00	123.00	0.00	123.00
146	178	.590	1.50	SHOP LABOR REPAIR ELEC WIRES UNDER TRK	0.00	123.00	0.00	184.50
146	178	.590	3.10	SHOP LABOR SWAP OVER PAN & V/C	0.00	123.00	0.00	381.30
146	178	.590	1.50	SHOP LABOR INSTALL BATTERY CABLE	0.00	123.00	0.00	184.50
146	178	.590	4.00	SHOP LABOR TIME FROM EXSESSIVE RUST ISSUE	0.00	123.00	0.00	492.00
146	178	.590	0.40	SHOP LABOR REPAIR FUEL PUMP	0.00	123.00	0.00	49.20
146	178	.590	0.50	SHOP LABOR REPAIR TRNY LINES	0.00	123.00	0.00	61.50
146	178	ANTIFREEZE	10.00	ANTIFREEZE ANTIFREEZE (bulk green 50%)	9.75	0.00	0.00	97.50
146	178	10w30 val max life	32.00	10w30 val max life 10w30 val max life	4.60	0.00	0.00	147.20
146	178	ATF	20.00	SR-11 ATF QTS	5.58	0.00	0.00	111.60

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HRS: 5859

1. SMOKES WHITE AND BLACK SMOKE AND MISSES---BROUGHT UNIT INTO SHOP HOOKED UP RAN DIAGNOSTICS AND FOUND NO ACTIVE CODES AND A FEW INACTIVE CODES# 100-1, 164-10, 17-14, 111-2, 84-4 AND 84-8---ALSO SHOWED ECM WAS OUT OF DATE WENT INTO FEATURES AND UPDATED ECM THEN BROUGHT UNIT TO OPERATING TEMP AND RAN CYL AND INJECTOR TESTS ALL PASSED THEN TEMPED EXHAUST MANIFOLD AND FOUND CYL 4 TEMP WAS WAY OFF BROUGHT BACK INTO SHOP REMOVED ALL PART TO GAIN ACCESS TO VALVE COVER REMOVE VALVE COVER THEN REMOVED ALL INJECTORS AND THE TIP WAS MISSING ON CYL#4 WHICH HAS BEEN KNOWN TO CAUSE INTERNAL DAMAGE OF CYL, USED BORE SCOPE AND LOOKED IN CYL AND SEEN DAMAGE ON TOP OF PISTON SO DRAINED COOLANT REMOVED ROCKER ASSEMBLY HEADL BOLTS AND SEVERAL OTHER ITEMS NEED TO REMOVE CYL HEAD THEN REMOVED CYL HEAD AND FOUND TIP HAD WENT THREW ENGINE AND CYL#1 AND 4 HAD GOTTEN SCORED CONTACTED CUSTOMER AND SAID TO GO AHEAD AND PERFORM A INFRAME THEN WHEN TAKING MORE APART AND CLAENING FOUND THE CAME SHAFT IS FLAKING METAL OFF ALONG WITH LIFTERS UNIT WILL ALSO NEED CAM SHAFT AND OTHER PARTS-----REMOVED ALL PARTS TO GAIN ACCESS TO ENGINE UNHOOKED ALL HOSES , PIPING AND ELECTRICAL FROM ENGINE REMOVED RADIATOR ASSEMBLY REMOVED ENGINE AND TRANY --REMOVED TRANY FROM ENGINE SET ASIDE REMVOED OLD PARTS FROM OLD ENGINE NEEDED ON NEW ENGINE AND THEN NOTICED NEW ENGINE HAD WRONG SUMP OIL PAN AND VALVE COVER SO HAD TO REMOVED OIL PAN AND VALVE COVER FROM OLD ENGINE THEN FROM NEW ENGINE AND INSTALLED OLD ONTO NEW ENGINE --THEN REMOVED WORN FRONT AND REAR ENGINE MOUNTS INSTALLED NEW MOUNTS --ALSO NOTICED SEVERAL WIRES HAD BEEN RUBBING ON FRAME AND TRANY SO REPAIRED ALL WIRES THEN REMOVED OLD POSITIVE BATTERY CABLE INSTALLED NEW POSITIVE BATTERY CABLE --THEN INSTALLED TRANY ONTO NEW ENGINE INSTALLED NEW ENGINE INTO TRK HOOKED UP ALL PARTS REMOVED FOR THIS JOB WHEN WAS GOING TO INSTALL RADIATOR NOTICED IT WAS VERY DIRTY SO TOOK ASSEMBLY APART STEAMED RAD AND CAC PUT BACK TOGETHER AND INSTALLED ONTO TRK --ALSO HAD TO REPAIR BOTH TRANY HOSES THEN FITTINGS ON BOTH ENDS CAME APART WHEN REMOVING FROM TRK THEN FILLED ALL FLUID PRIMED FUEL SYSTEM STARTED TRK LET RUN THEN LOOKED FOR LEAKS NO LEAKS TOP OFF FLUID AND TEST DROVE WITH NO ISSUES CHECKED FOR LEAKS AGAIN NO LEAKS ----ALSO HAD EXSESSIVE TIME DO TO EXSESSIVE RUST ON NUTS BOLTS AND STEEL FITTINGS HEAT AND TRYING TO GET THEM FREE AND ALSO HAVING TO CUT THEM OFF

2. CUSTOMER STATES HAS AN ELECTRICAL FUEL PUMP ON THE FRAME DOESNT KNOW IF THIS IS AN ISSUE---FOUND PWR LEAD RUNING TO PUMP WAS BROKE OFF REPAIRED PWR WIRE AND TESTED PUM IT WORKS NOW

CALL 701-315-0007 BILL

\*\*\*\*\* ALL WHEELS, must be retorqued within 50 miles!!! If not, customer assumes all liability.\*\*\*\*\*

Dakota Truck & Farm is not responsible for loss or damage to vehicle or articles left in vehicle in case of fire, theft or any other cause beyond our control.

Cash: 0.00	Check: 0.00	Credit: 0.00	Charge: 26,914.04		
Change: 0.00			Due Date: 01/12/2020	Parts:	20,296.59
				Labor:	6,537.45
				SHOP SUPPLIES	80.00
				Subtotal:	26,914.04
				Sales Tax:	0.00
				<b>Total:</b>	<b>\$26,914.04</b>

**Signature:** \_\_\_\_\_

Net due in 30 days.