

4575 E Hwy 50 Plaza Garden City, KS 67846 (620) 260-9379  
 201 W. 35th Parkway Chanute, KS 66720 (620) 431-6700  
 1200 NW Hwy 24 Topeka, KS 66608 (785) 267-8137  
 603 North Ash Hillsboro, KS 67063 (620) 947-3182  
 1280 S. Country Club Colby, KS 67701 (785) 462-2412

# Lang Diesel, Inc.

144 W. Farrelly Road  
 Salina, KS 67401  
 Phone (785) 825-8177  
 www.langdieselinc.com

15 S.E. 90th Ave Ellinwood, KS 67526 (620) 564-2255  
 15 N. Old Hwy 75 Sabetha, KS 66534 (785) 284-3401  
 1366 Toulon Ave. Hays, KS 67601 (785) 735-2651  
 815 W. Hwy 36 Smith Center, KS 66967 (785) 282-6861  
 1210 S. 2nd Ave. Dodge City, KS 67801 (620) 371-6906

RO: 13104M  
 Invoice: 14653M  
 Date: 12/13/2013

NEMAHA COUNTY COOP ASSN  
 PO BOX 204

SENECA, KS 66538

Year		Make/Model		Vehicle Identification		
2003		TER 8104		84059103		
Stock No	PO	License	Tag	Customer	Telephone	
11427	8104	195		66153	785-336-6153	

Cond	OpCode	T	Description	Quantity	List	Net	Total
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Type: SPRAYER RO Open Date: 11/04/13 Meter In: 5112  
 Meter Out: 5120

001 REPAIR J.D ENGINE  
 D ENGINE MISSING AND BLOWING SMOKE.

F MACHINE WAS BROUGHT IN WITH COMPLAINT OF NOT RUNNING RIGHT AND BLOWING SMOKE. AFTER GETTING MACHINE WASHED OFF THE ENGINE AND REMOVED THE HOOD. REMOVED THE CROSS OVER TUBES AND THE VALVE COVERS. REMOVED THE INJECTORS AND INSPECTED AND FOUND THAT #4 LOOKED A LITTLE BEAT UP. DID A COMPRESSION TEST AND FOUND THAT NUMBER 4 CYLINDER ONLY HAD 14 PSI AND NONE OF THE REST OF THEM WERE EVEN AT SPEC. REMOVED THE COMPUTERS IN THE CAB CORNER AND ROLLED BACK THE FLOOR MAT AND REMOVED ALL 4 FRONT CAB MOUNT BOLTS HAD TO HEAT THEM UP WITH A TORCH ABOUT TIRING TO GET THEM OUT WITH NO LUCK. JACKED THE CAB UP SO BACK HEAD BOLTS AND HEAD COULD BE REMOVED. DRAINED THE ANTIFREEZE AND REMOVED THE HEAD FOUND #4 PISTON BROKE. DRAINED THE OIL AND REMOVED THE PAN AND REMOVED ALL 6 PISTONS AND SLEEVES. CLEANED UP ALL MATING SURFACES AND CHECKED THE BLOCK FOR CRACKED CLEANED ALL THE ORINGS GROVE WERE THE SLEEVE SEAT RAN A TAP IN THE HOLES IN THE BLOCK TO CHECK AND MAKE SURE ALL HOLES WERE GOOD AND NOT STRIPPING OUT. CLEANED UP ALL OTHER PARTS IN THE SOLVENT TANK AND CHECKED OVER. FOUND THE HEAD HAD BROKEN SEATS. ORDERED ALL NECESSARY PARTS FROM CTI IN ABILENE. CLEANED UP ALL THE THREADED HOLES AND THEN CLEANED EVERYTHING WITH BRAKE CLEAN AND SOLVENT. AFTER GETTING ALL PARTS INSTALLED SLEEVES AND CHECKED THE SLEEVE HEIGHT TO VERIFY EVERYTHING WAS WITH IN SPEC. INSTALLED REMAIN RODS ON THE PISTONS AND INSTALLED IN THE BLOCK. INSTALLED REMAIN HEAD AND ALL NEW HARDWARE. USED ALL NEW GASKET, ALSO INSTALLED NEW WATER PUMP AND THERMOSTAT ALSO INSTALLED NEW TURBO AND AIR FILTERS. AFTER GETTING EVERYTHING PUT TOGETHER ON THE ENGINE. HAD A HARD TIME GETTING IT STARTED BECAUSE THE FUEL SYSTEM WAS AIR LOCKED. RAN THE MACHINE TO CHECKS FOR LEAKS AND TO CHECK FLUID LEVELS. FOUND ONE SMALL ANTIFREEZE LEAK BUT HAD TO REMOVE THE FAN AGAIN AND RESEALED THE THERMASTAT HOUSING AGAIN. HAD TO DRAIN OUT THE ANTIFREEZE AGAIN. AFTER GETTING RESEALED PUT THE WATER BACK IN IT AND TESTED AGAIN. EVERYTHING WAS GOOD. RAN MACHINE OUTSIDE TO BREAK IT IN A LITTLE AND TO CHECK FOR LEAKS AFTER IT WAS GOOD AND WARMED UP. BOLTED THE CAB BACK DOWN AND BOLTED THE COMPUTERS BACK UP IN CAB CORNER. AFTER BREAKING THE ENGINE IN BROUGHT IT BACK IN THE SHOP AND RAN A OVER HEAD ON IT AGAIN AND REINSTALLED THE HOODS. RINSED OFF ENGINE AND CHECKED FLUIDS



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TOPPED OFF AS NEEDED.

OIL ONLY NEEDS TO BE TOPPED OFF WITH JOHNDDEERE BREAK IN OIL FOR THE FIRST 100 HRS. IT SHOULD BURN SOME OIL. ALSO OIL AND FILTER NEEDS CHANGED AROUND 100 HRS TO THE OIL THAT IS NORMALLY USED.

L	L	LABOR					6562.60
		LABOR					
	P	AG517845 HOSE	3.00		2.38		7.14
	P	AG520209 CAC HOSE-3	1.00		53.65		53.65
	P	AG520208 HOSE/-2.5I	1.00		21.99		21.99
	P	AG561025 HOSE CLAMP	2.00		1.06		2.12
	P	79022729 ANTIFREEZE	8.00		10.30		82.40
	P	FREIGHT FREIGHT	1.00		10.28		10.28
		DPIP-2788593					
	P	79023090 CLEANER/BR	5.00		8.14		40.70
	P	AG725518 FAN BELT	1.00		50.08		50.08
	P	FARM PARTS	4.00		1.09		4.36
		PART # 19H3217-CAP SCREW-INV # 742646					
	P	FARM PARTS	1.00		1.78		1.78
		PART # 19H3912-CAP SCREW-INV # 742646					
	P	FARM PARTS	1.00		175.71		175.71
		PART # RE506501-KIT-INV # 742646					
	P	FARM PARTS	1.00		3694.12		3694.12
		PART # RE526726-ENGINE OVERHAUL KIT-INV # 742646					
	P	FARM PARTS	1.00		3124.77		3124.77
		PART # SE501577-CYLINDER HEAD-INV # 742646					
	P	FARM PARTS	6.00		163.15		978.90
		PART # SE501065-CONNECTING ROD REMAN-INV # 742646					
	P	FARM PARTS	1.00		1201.50		1201.50
		PART # SE501668-TURBOCHARGER REMAN-INV # 742646					
	P	FARM PARTS	6.00		382.61		2295.66
		PART # SE501940-INJECTION NOZZLE REMAN-INV # 742646					
	P	FARM PARTS	6.00		1.09		6.54
		PART # 19H3218-CAP SCREW-INV # 742646					
	P	FARM PARTS	8.00		2.79		22.32
		PART # R54500-SCREW-INV # 742646					
	P	FARM PARTS	2.00		11.44		22.88
		PART # AR48675-THERMOSTAT-INV # 742646					
	P	FARM PARTS	8.00		1.50		12.00
		PART # R63845-WASHER-INV # 742646					
	P	FARM PARTS	1.00		80.00		80.00
		PART # RE522372-FUEL FILTER-INV # 742646					
	P	FARM PARTS	1.00		19.83		19.83
		PART # RE57394-OIL FILTER-INV # 742646					
	P	FARM PARTS	1.00		529.89		529.89



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			PART # 521502-WATER PUMP-INV # 742646				
			P FARM PARTS	1.00		24.16	24.16
			PART # 502778-FILTER ELEMENT-INV # 742646				
			P FARM PARTS	6.00		0.77	4.62
			PART # 24H1682-WASHER-INV # 742646				
			P FARM PARTS	6.00		0.90	5.40
			PART # 19H2633-CAP SCREW-INV # 742646				
			P FARM PARTS	3.00		1.82	5.46
			PART # 19H2458-CAP SCREW-INV # 742646				
			P FARM PARTS	2.00		8.52	17.04
			PART # JD9449-BALL BEARING-INV # 742646				
			P FARM PARTS	12.00		1.97	23.64
			PART # 19H3833-SCREW-INV # 742646				
			P FARM PARTS	8.00		0.45	3.60
			PART # 24H1305-WASHER-INV # 742646				
			P OTHER PARTS/OTHR	1.00		53.27	53.27
			PART # R524512-OIL TUBE-INV # 743519				
			P OTHER PARTS/OTHR	1.00		77.99	77.99
			PART # R518376-OIL TUBE-INV # 743519				
			P OTHER PARTS/OTHR	10.00		30.89	308.90
			PART # TY26661-10W30 BREAK IN PLUS 1 GAL-INV # 743519				
			P OTHER PARTS/OTHR	6.00		31.07	186.42
			PART # R57771-PISTON PIN-INV # 743519				
			PART # R57771-PISTON PIN-INV # 743519				
			P OTHER PARTS/OTHR	12.00		7.03	84.36
			PART # R501035-CAP SCREW-INV # 743706				
			P OTHER PARTS/OTHR	1.00		12.78	12.78
			PART # R136151-SEAL-INV # 743706				
			P FREIGHT FREIGHT	1.00		13.80	13.80
			P OTHER PARTS/OTHR	4.00		2.26	9.04
			PART # R71732-O RING-INV# 743877				
			P AG520216 SENDER	1.00		102.04	102.04
			P OTHER PARTS/OTHR	1.00		7.49	7.49
			TSC BATTERY CABLE LUG TICKET# 149735				
			P FREIGHT FREIGHT	1.00		8.28	8.28
			DOC4026				
			P OTHER PARTS/OTHR	1.00		38.33	38.33
			PART # R87732-ADAPTER FI-INV # 745475				
			P OTHER PARTS/OTHR	1.00		46.28	46.28
			PART # RE40048-CLAMP-INV # 745475				
			P AG553557 PANDUIT ST	20.00		0.14	2.80
			P AG718569 FILTER ELE	1.00		152.54	152.54
			P AG718570 FILTER ELE	1.00		47.66	47.66



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P 103060 FUEL TREAT 1.00 12.61 12.61  
 PRICES ON HEAD,CONNECTING RODS,TURBO,INJECTORS  
 AND WATER PUMP REFLECT CORE EXCHANGED  
 CYLINDER HEAD \$750 (CORE)  
 CONNECTING RODS \$20 EACH (CORE)  
 TURBO \$100 (CORE)  
 INJECTORS \$75 EACH (CORE)  
 WATER PUMP \$50 (CORE)

Subtotal charges this section 20249.73

002

REPAIR TRANNY OIL LEAK

D ADVISED THEM THAT A REAR MAIN SEAL SHOULD BE INSTALLED WHEN THE  
 TRANNY WAS OUT AND TOLD TO DO IT.

F WHEN REMOVING OIL PAN ON THE ENGINE FOUND THAT THE TRANSMISSION  
 HAD A OIL LEAK COMING OUT OF THE BELL HOUSE AND WAS RUNNING  
 DOWN THE FRONT OF THE CASE. CALLED AND TALKED WITH BRIAN AND HE  
 WANTED IT FIXED. AFTER GETTING THE TRANSMISSION OUT AND THE  
 BELL HOUSING OFF FOUND THAT THE LEAK WAS NOT COMING FROM THE  
 INPUT SHAFT SEAL LIKE ORIGINALLY THOUGHT. OIL WAS LEAKING OUT  
 OF THE BELL HOUSING BOLTS. TALKED WITH BRIAN AGAIN AND ADVISED  
 THAT IT WAS DEEPER THAN THOUGHT AND THAT MAYBE IT NEEDED TO GO  
 TO PALMER JOHNSON IN KANSAS CITY. HE ADVISED THAT HE WANTED US  
 TO TRY TO REPAIR THE OIL LEAK. AFTER STARTING TO GET INTO THE  
 TRANNY TALKED WITH BRIAN AGAIN AND ADVISED HIM THAT IF THIS  
 DIDN'T FIX THE OIL LEAK AND IT STARTED TO LEAK AND GET ON THE  
 NEW DAMPNER CLUTCH THAT IT WOULD VOID THE CLUTCH WARRENTY. HE  
 SAID THAT HE DECIDED TO GET IT SENT OFF AND GET IT FIXED. HE  
 ALSO SAID THAT HE WANTED A REAR MAIN SEAL INSTALLED ON THE  
 ENGINE SINCE IT WAS APART. INSTALLED THE UPDATE BYPASS KIT FOR  
 THE NEW UPDATED LARGER CHARGE PUMP THAT WAS INSTALLED FROM  
 PALMER JOHNSON. GOT THE TRANNY BACK AND INSTALLED IT BACK IN  
 THE MACHINE. FLUSHED ALL THE COOLER LINES. INSTALLED NEW FILTER  
 AND FILLED WITH OIL. RAN THE MACHINE AND FOUND IT HAD A FILTER  
 LINE LEAKING. HAD TO BACK OFF THE LINES MULTIPLY TIMES TO GET  
 IT TO SEAT ON THE FITTING. TOPPED IT OFF WITH OIL AND RAN THE  
 MACHINE TO WARM IT UP. TRIED TO CALIBRATE TRANSMISSION AND IT  
 WAS COMING UP WITH A ERROR CODE OF 115 WITCH IS THAT CLUTCH  
 PACK C WAS NOT FILLING CORRECTLY. TRIED TO CALIBRATE IT 3 TIMES  
 TO SEE IF IT WOULD EVER GO THOUGH AND IT WOULDN'T. DECIDED TO  
 MOVE THE CLUTCH CARTRIDGE AND MOVE IT TO CLUTCH D TO SEE IF IT  
 WAS INSIDE THE TRANSMISSION OR NOT. FOUND THAT AFTER MOVING  
 THAT IT WAS IN CLUTCH PACK D CALLED PALMER JOHNSON SINCE THEY  
 WENT THOUGH IT AND TOLD THEM THEY SENT OUT A NEW ASSEMBLIY AND  
 AFTER GETTING IT PUT IT IN AND TOOK IT OUT AGAIN AND WARMED IT



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UP. CALIBRATED AGAIN AND FOUND THAT EVERYTHING WORKED GOOD AND  
 IT DID A SUCCUSSFULL CALIBRATION. TOOK THE MACHINE OUT AND  
 TESTED ALSO SEATED THE NEW CLUTCH AND EVERYTHING WAS WORKING  
 GOOD WITH NO FURTHER PROBLEMS.

L	L LABOR						3126.45
	LABOR						
	P AG610114 FILTER ELE	1.00		77.01		77.01	
	P AG520494 COMPRESS.	2.00		43.55		87.10	
	P FREIGHT FREIGHT	1.00		8.28		8.28	
	P FARM PARTS	1.00		78.00		78.00	
	PART # R530322-HOUSING-INV # 742645						
	P FARM PARTS	6.00		0.71		4.26	
	PART # 19H2927-SCREW-INV # 742645						
	P AG562390 TEE FITTIN	2.00		34.51		69.02	
	P AG562550 ADAPTER FI	2.00		40.50		81.00	
	P AG220601 HYDRAULIC	1.00		42.50		42.50	
	P FREIGHT FREIGHT	1.00		10.88		10.88	
	DPBT-4197119						
	P OTHER PARTS/OTHR	1.00		13046.54		13046.54	
	COMPLETE REBUILD OF TRANSMISSION PALMER JOHNSON 5279612						
	P FREIGHT FREIGHT	1.00		10.93		10.93	
	DPIP-2792918						
	P AG335075 DAMPER	1.00		2795.16		2795.16	
	P CORES: Core Chrgs	1.00		400.00		400.00	
	P AG335075RC CORE-DAMPE	1.00				-400.00	
	P 79014715Q 821XL QT	20.00		4.08		81.60	
	P 402294X1 CABLE TIE-	5.00		0.50		2.50	
	P 79023090 CLEANER/BR	3.00		8.14		24.42	
	P 841867M1 OIL/PERM 8	1.00		17.41		17.41	
	Subtotal charges this section					19563.06	

003

REPAIR REAR AXLE

D PARTS WERE IN THE CAB TO DO THE SEAL AND WAS ASKED IF IT COULD  
 BE DONE WHEN IT WAS AT THE SHOP  
 C NO CHARGE FOR THE UPDATED UBOLT KIT FROM JACKSON.

F DISASSEMBLED THE LEFT HAND SIDE TO INSTALL WHEEL WEAL AND  
 FOUND THAT THE BRAKES WERE DOWN TO THE RIVIOTS AND HAD GOT IN  
 THE DRUM. ALSO FOUND THAT THE BOTTOM LEAF SPRINGS WERE BROKE.  
 CALLED BRIAN AND TALKED TO HIM ABOUT REPAIRING EVERYTHING THAT  
 WAS WRONG. HE SAID HE WANTED IT FIXED. ORDERED ALL THE PARTS  
 AND CALLED UP TO JACKSON TO THE FACTORY TO SEE IF WE COULD GET  
 THE NEW UPDATED UBOLTS FOR THE MACHINE. AFTER RECEIVING ALL THE  
 PARTS. RESEALED BOTH SIDES. INSTALLED NEW BRAKES AND DRUMS AND



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HARDWARE AS NEEDED. RESET THE BEARINGS ON THE PLANTERY. CUT OUT THE OLD UBOLTS AND SEPRATED THE AXLE FROM THE CHASSIS. REMOVED THE LEAF SPRINGS AND INSTALLED JUST THE BOTTOM SET IN. USED A COME A LONG TO PULL THE AXLE BACK INTO PLACE. INSTALLED NEW UPDATED UBOLT KIT. TORQUED THE BOLTS. REINSTALLED THE TIRES AND FILLED WITH OIL. TOPPED OFF THE CENTER PUMPKIN WITH OIL AND TOOK MACHINE OUT FOR A TEST DRIVE. CHECKED WHEEL BOLT TORQUE AND EVERYTHING WAS GOOD WITH NO FURTHER PROBLEMS. WHEEL BOLTS NEEDED CHECKED AFTER THE FIRST COUPLE DAYS OF USE

L	L LABOR						2804.40
	LABOR						
	P 79022402 OIL/GL715	7.00		4.21			29.47
	P ACP0038690 COMPOUND-G	1.00		5.99			5.99
	P 79023090 CLEANER/BR	3.00		8.14			24.42
	P AG719613 ROD/RADIUS	2.00		535.47			1070.94
	P AG717603 SHOE/BRAKE	4.00		698.53			2794.12
	P AG707642 BUSH	2.00		8.02			16.04
	P AG714506 FLAT WASHE	4.00		17.25			69.00
	P AG707638 FELT RETAI	8.00		1.84			14.72
	P AG717352 BRAKE DRUM	2.00		1114.07			2228.14
	P AG713807 BOLT	2.00		15.46			30.92
	P AG714477 ADAPTOR/RE	2.00		5.98			11.96
	P AG707639 ANCHOR PIN	8.00		1.75			14.00
	P AG712651 OIL SEAL	1.00		82.69			82.69
	P AG516123 SPRING PIN	1.00		41.97			41.97
	P AG561464 HEX HEAD B	4.00		7.79			31.16
	P AG550558 LOCK WASHE	4.00		0.42			1.68
	P 375090X1 SPLIT PIN-	4.00		0.31			1.24
	P 32921PF NUT-HEX GR	4.00		0.53			2.12
	P FREIGHT FREIGHT	1.00		18.32			18.32
	P FREIGHT FREIGHT	1.00		9.29			9.29
	P FREIGHT FREIGHT	1.00		6.93			6.93
	P FREIGHT FREIGHT	1.00		60.43			60.43
	DPBT-4186995						
	P FREIGHT FREIGHT	1.00		56.26			56.26
	DPBT-4189364						
	P ACP0038740 COMPOUND-T	1.00		29.75			29.75
	P FREIGHT FREIGHT	1.00		310.31			310.31
	CCX FREIGHT DOC 2074 COLBLY DRUMS						
	Subtotal charges this section						9766.27

M SHOP SUPPLIES 100.00

VISIT US ONLINE AT WWW.LANGDIESELINC.COM



4575 E Hwy 50 Plaza Garden City, KS 67846 (620) 260-9379  
 201 W. 35th Parkway Chanute, KS 66720 (620) 431-6700  
 1200 NW Hwy 24 Topeka, KS 66608 (785) 267-8137  
 603 North Ash Hillisboro, KS 67063 (620) 947-3182  
 1280 S. Country Club Colby, KS 67701 (785) 462-2412

# Lang Diesel, Inc.

144 W. Farrelly Road  
 Salina, KS 67401  
 Phone (785) 825-8177  
 www.langdieselinc.com

15 S.E. 90th Ave Ellinwood, KS 67526 (620) 564-2255  
 15 N. Old Hwy 75 Sabetha, KS 66534 (785) 284-3401  
 1366 Toulon Ave. Hays, KS 67601 (785) 735-2651  
 815 W. Hwy 36 Smith Center, KS 66967 (785) 282-6861  
 1210 S. 2nd Ave. Dodge City, KS 67801 (620) 371-6906

RO: 13104M  
 Invoice: 14653M  
 Date: 12/13/2013

NEMAHA COUNTY COOP ASSN  
 PO BOX 204

SENECA, KS 66538

Year		Make/Model		Vehicle Identification		
		2003 TER 8104		84059103		
Stock No	PO	License	Tag	Customer	Telephone	
11427	8104	195		66153	785-336-6153	

Cond	OpCode	T	Description	Quantity	List	Net	Total
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*Repair to* #54 010985

**Lang Diesel Inc.**

*Engine*  
*Transmisson*  
*Rear end*

*20249<sup>73</sup>*  
*19563<sup>06</sup>*  
*9866<sup>27</sup>*

A/R 66153 49679.06

Tax ID: 480350130

I HEREBY AUTHORIZE THE REPAIR WORK TO BE DONE AS DESCRIBED ON MACHINE(S) NAMED HEREON. ALL REPAIR PARTS ARE TO BE BILLED AT YOUR REGULAR PRICES. I AGREE TO PAY CASH FOR SUCH REPAIRS AND LABOR ON DELIVERY OF MACHINE(S) OR ON TERMS SATISFACTORY TO YOU, AND UNTIL PAID IN FULL, ANY UNPAID BALANCE SHALL CONSTITUTE A LIEN ON THIS MACHINERY. I FURTHER AGREE TO PAY ALL COURT COST, ATTORNEY'S FEES AND EXPENSES ON ANY UNPAID BALANCE COLLECTED THOUGH AN ATTORNEY, AND AGREE THAT YOU WILL NOT BE HELD RESPONSIBLE FOR LOSS OR DAMAGE TO SAID MACHINERY FROM FIRE, THEFT OR OTHER CAUSES BEYOND YOUR CONTROL.

Received By \_\_\_\_\_

DESC	TOTALS
LABOR	12493.45
PARTS	37085.61
SUBLET	
MISC	100.00
OTHER	
SUBTOTAL	49679.06
TAX	
TOTAL	49679.06