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FC-R-2018-22
CUMBERLAND FIRE DISTRICT
Resolution

5 **RESOLUTION:** Authorizing the Business Manager to pay Ralco Equipment
6 Company, Inc. an amount not to exceed \$6,811.67.

8 **WHEREAS:** S&D Road Service, Inc. has made repairs to Engine 1.

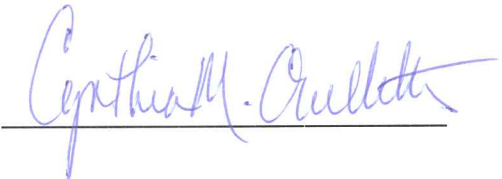
10 **WHEREAS:** All repairs have been made with the approval of the Chief.

11
12 **NOW, THEREFORE, BE IT RESOLVED BY THE CUMBERLAND FIRE DISTRICT AS FOLLOWS:**

14 **Section 1:** The Business Manager is authorized to pay Ralco Equipment
15 Company, Inc. an amount not to exceed \$6,811.67.

18 Voted on this 24th day of July, 2018

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Cynthia Ouellette, Chairperson

27 **PASSED:**

28 **YAY: 7 NAY: 0**

Ralco Equipment Company, Inc
 51 Ralco Way/PO Box 35
 Cumberland, Rhode Island. 02864-0035
 Phone: 401-726-3095 Fax: 401-726-6950
 We do the job once and we do it right!

INVOICE

9888

Org. Est. # 016417
 RI Inspect Station 155C
 ralcotruck45@gmail.com

Date: 07/02/2018

INVOICE

Cumberland Fire Department - Chief Finlay
 3502 Mendon Road
 Cumberland, RI 02864
 Office 401-658-0544 -- Cellular 401-474-0314 Fin

2004 Pierce - Fire Engine Apparatus - Cummins ISL
 Lic # : 1212 Odometer In : 96507
 Unit # : Engine 1
 VIN # : 4P1CT02A2 4A004083

Part Description / Number	Qty	Sale	Ext	Labor Description	Ext
Power Lube 05006	1.00	7.53	7.53	Perform major brake job on unit, drive axle. (Cast Shoes)	n/c
Cut Off Wheel 01989	2.00	11.93	23.86	ADD: Replace brake drums.	
HD Brake Chamber 30/36 MA3036	2.00	289.94	579.88	Jack up unit. Remove all wheels and tires. Back off brakes and remove drums. Remove brake shoes and hardware. Clean and inspect spider, s-cam shafts, seals, and brake chambers. Clean out all ABS sensors and adjust if equipped. Install new sets of premium brake shoes and linings. Install new spring roller hardware kits and lubricate pivot points. Install drums and secure. Install wheels and tires. Check and top off rear end level, clean vent. Adjust brakes and lubricate system. Remove from stands and test operation.	
HD Washer 8FW58F	4.00	2.86	11.44	ADD: Press out and remove steel pivot bushings and replace with new units.	
LOCK NUT 8SLN58C	4.00	4.21	16.84	ADD: Remove and replace original brake drums with new upgraded heavy duty units.	
HD Steel 45 Deg Elbow 384538S	2.00	9.76	19.52	Remove and replace brake chambers, left rear leaking air.	n/c
Teflon Tape 06195	1.00	6.79	6.79	During brake repairs, free up and remove retainer and clevis pins.	
Hose Divider/Holder 11549	4.00	7.83	31.32	Remove air lines to chamber. Remove mounting hardware. Remove chamber assemblies. Cut new chamber push rod to length. Install jam nut and yoke. Transfer fittings to new chambers. Install on truck and secure with new retainers. Reconnect yoke to slack adjuster with clevis pin and retainer pins. Reconnect air lines and secure. Check operation and for leaks once repairs complete.	
Yoke Assy KN36470	2.00	20.58	41.16	Remove and replace leaking ABS modulator air valves on rear left and right side axles.	n/c
Clevis Pin CP1	2.00	9.67	19.34	After brake repairs and check out found both left and right valves leaking air when brakes applied. Locate new OEM valves.	
Jam Nut 58FHF516	2.00	2.86	5.72	Disconnect lines and retainers. Remove ABS connectors. Remove valves. Install new ABS valves and secure with new through bolt retainers and support brackets with stud kit. Transfer fittings and seal. Reinstall all lines and secure. Install ABS adapter harness and plug into original harness and new valves. Insulate and secure.	
Brake Clean C32	4.00	6.32	25.28	Test operation and verify no further leaks.	
Surf Cond Disc 7485	3.00	6.97	20.91	Inspect problem with a/c. Front is warm, rear is cold.	n/c
Emery Cloth 05001	20.00	0.84	16.80	Inspect operation of unit and found heater hoses causing less than efficient production for front of cab a/c. Unit is equipped one cable operated shut off valve however it is allowing coolant to pass according to laser temp readings on each side of valve.	
Corrosive Cmpd 97944	1.00	4.99	4.99	Recommend install of manual shut off valves to increase a/c efficiency and stop hot coolant from passing through cab.	
Steel Pivot Bushing 60743	4.00	11.61	46.44	Drain coolant and install manual shut off valves.	n/c
Retaining Cmpd 4C-9507	1.00	13.77	13.77	Drain engine coolant. Disconnect supply side heater hoses on rear of cylinder head and block. Using necessary fittings, valves and adapters install shut off valve set ups on both supply liens for each of the two heater cores in the cab. Seal and secure. Reconnect heater hoses and replace hose clamps. Fill system with coolant and bleed. Run unit with valves open in order to allow system to fill up.	
Prem P Cast Brake Shoe 26000# SG4034515GG	4.00	247.88	991.52	Top off fluid as needed. Close valves and operate a/c. Found 10 degrees cooler in the front however road test revealed still not as good as it could be. Perform a/c system service below and found 2 pound under charge. Charge with appropriate amount of fresh refrigerant and verify operation and duct temp to 50 degrees.	
Anchor Pin Spring HDW Kit KIT9081HD	2.00	29.32	58.64		
Syn Slide Lubricant BK4	2.00	6.69	13.38		
Tr Wheel Nut 016-29856R	2.00	11.21	22.42		

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2004 Pierce - Fire Engine Apparatus - Cummins ISL
 Lic #: 1212 Odometer In: 96507
 Unit #: Engine 1
 VIN #: 4P1CT02A2 4A004083

Part Description / Number	Qty	Sale	Ext	Labor Description	Ext
Outer Wheel Nut 016-31022R	3.00	6.14	18.42	Perform a/c system flush and service.	n/c
Anti Seize Cmpd 80078	1.00	9.36	9.36	Evacuate system of any refrigerant using necessary equipment.	
Prem HD Bal Brake Drum 66884	2.00	256.12	512.24	Hook up to valves and vacuum system for 30 minutes. Allow unit to sit for one hour to check for vacuum leak down. Charge system with appropriate amount of refrigerant and oil. Check pressure readings and system operation. Check duct temperatures and leak test.	
ABS Modulator Valve Assy R950127	2.00	271.29	542.58	Tighten and secure door hinges on cab, all.	n/c
Adapter Harness 610449H	2.00	46.84	93.68	During repairs found cab door hinges excessively loose on all doors where piano hinge bolts to cab and door. Tighten and secure all philips head retainers. Lube all hinges as needed.	
L-Bracket 705268B	2.00	22.15	44.30	Labor Charge	2,733.38
Mounting Bolt Kit 8B38X175CK	6.00	2.49	14.94	Environmental Fee	15.95
Threaded Stud Kit 8TSS16X400CK	4.00	3.22	12.88		
Brass 90 Comp Fitting 50MP9050CMP	2.00	11.34	22.68		
Male Hex Pipe Plug 38MPHB	2.00	4.27	8.54		
Rubber Flex Insulation 182040RFW	2.00	3.16	6.32		
HOSE CLAMP 9242	4.00	5.37	21.48		
HD Brass 90 Deg Shut Off Valve TV405P-8-8	2.00	36.59	73.18		
Brass Reducer Bushing 75MPH50FMP	1.00	6.67	6.67		
Brass 90 Street Elbow 50MP90SW	1.00	10.72	10.72		
Brass Barb Nipple 50MPST58BRB	3.00	8.99	26.97		
Brass 90 Barb Nipple 50MP9058BRB	2.00	11.58	23.16		
HD Heater Hose 4 Ply 28441	6.00	5.67	34.02		
HOSE CLAMP 9210	9.00	4.04	36.36		
Barb Union Nipple 58BRBH58BRB	2.00	9.73	19.46		
NYL INSUL CLAMP 38100IC	4.00	3.78	15.12		

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2004 Pierce - Fire Engine Apparatus - Cummins ISL
 Lic #: 1212 Odometer In : 96507
 Unit #: Engine 1
 VIN #: 4P1CT02A2 4A004083

Part Description / Number	Qty	Rate	Ext	Ext
PROTECTIVE SPLIT LOOM 5-032	14.00	2.26	31.64	
EX Life Coolant AF3000	7.50	9.08	68.10	
Cap Screw Kit 8B516X125CK	4.00	1.42	5.68	
O-RING 4259	2.00	5.97	11.94	
O-RING 4106	1.00	4.81	4.81	
Assy Lube SL3331	1.00	6.78	6.78	
Aligning Pin 8247P	1.00	8.64	8.64	
Service Valve Core 2676	1.00	6.47	6.47	
Service Valve Core 2677	1.00	8.01	8.01	
A/C Flush Solvent 2032	2.50	28.11	70.28	
Pag Refrig Oil 2468OZ	6.75	8.84	59.67	
R134A 3030	8.25	24.89	205.34	
ENGINE OIL 15W40	4.00	7.26	29.04	
SS Thrust Head Bolt 5THB25X100SS	4.00	1.34	5.36	
Shop Supplies			9.95	

[Recommendations]

Rear deck plate loose and banging, lights not working. Passenger side rear door strap needs repairs. Fuel tank needs to be cleaned, undercoated. Air valves in rear for brake supply and emergency activation corroding away. Recommend replacement. Recommend these repairs performed at July inspection period. Rear tires need replacement.

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 Cumberland, RI 02864 Unit #: Engine 1
 Office 401-658-0544 -- Cellular 401-474-0314 Fin VIN #: 4P1CT02A2 6A004083

Part Description / Number	Qty	Sal	Ext	Labor Description	Ext
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Org. Estimate 6,811.67 Revisions 0.00 Current Estimate 6,811.67

Labor:	2,733.38
Parts:	4,062.34
HazMat:	15.95
SubTotal:	6,811.67
Tax:	0.00
Total:	6,811.67
Bal Due:	\$6,811.67

[Payments -]

Vehicle Received: 7/2/2018

Customer Number : 934

I hereby authorize the above repair work to be performed. I hereby grant you or your employees permission to operate the car or truck herein described on street, highways, etc for the purpose of testing and/or inspection. An express mechanic's lien is hereby acknowledged on above car or truck to secure the amount of repairs thereto. All sums shall become due payable upon completion. All legal, attorney, and/or collection fees pursuant to this contract shall be paid to Ralco Equip Co by the undersigned

Signature _____ Date _____

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