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FC-R-2017-20
CUMBERLAND FIRE DISTRICT
Resolution

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RESOLUTION: Authorizing the Finance Director to pay Ralco Equipment Company, Inc. an amount not to exceed \$11,602.19.

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WHEREAS: Ralco Equipment Company, Inc. was contracted to make repairs to Truck 1.

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

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

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RESOLVED: The Finance Director is authorized to pay Ralco Equipment Company, Inc. an amount not to exceed \$11,602.19.

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Voted on this 27th day of June, 2017

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Cynthia Ouellette, Chairperson

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PASSED:

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YAY: 6 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!

9262
 Org Est # 015924
 RI Inspect Station 155C
 ralcotruck45@verizon.net

INVOICE

Cumberland Fire Department - Chief Finlay
 3502 Mendon Road
 Cumberland, RI 02864
 Office 401-658-0544 --- Cellular 401-474-0314 Fin
 Cust ID : 934

Print Date : 06/14/2017
 2000 KME - KME Fire Appartus Tandem Axle
 ISM 450 HP Cummins 34998020
 Lic # : 690 - RI Odometer In : 60,703
 Unit # : Truck 1 Odometer Out :
 VIN # : 1K9AF648X YN058211

Part Description / Number	Qty	Sale	Ext	Labor Description	Extended
Steam Soap 51650	4.00	9.82	39.28	Remove and replace rear brakes, drums per previous diagnosis.	0.00
Brake Clean C32	4.00	6.32	25.28	Support unit on out riggers and secure with pins. Free up and remove all wheels and tires on both rear drive axles. Back off brakes. Remove brake drums. Found wheel seals leaking and should be replaced. Contact chief and have him inspect and approve. Remove cosmetic hub caps and found axle shaft retainers excessively rotted. Hammer on sockets and heat to remove units. Remove axle cones. Remove axle shafts. Remove all bearing retainers and locks. Remove outer bearings. Remove hub and seal assemblies. Clean and remove all brake shoes and hardware. Clean all areas and inspect s-cam shafts and all related. Press out and remove anchor pin retainers. Install new bushings and pins. Remove and clean all ABS sensors and secure. Install new premium brake shoes and linings. Lubricate all areas and replace brake spring hardware kits. Remove wheel seals and inner bearings from hubs. Steam clean all areas and inspect bearing condition and hubs. Install inner bearing sin hub and secure. Press in new wheel seals. Install hub on axle and fill cavity with fresh gear lube. Install outer bearing and retainers. Adjust all bearings to spec. install new multi hole lock and lock rings as needed. Install outer nut and torque to specs. Clean axle shafts. Replace necessary axle shaft studs that came out during removal. Install axle shaft gasket and sealer. Install shafts and secure replacing necessary rotted axle shaft alignment cones. Torque to specs with all new nylon lock nuts. After all repairs complete, re install all wheels and tires in original positions.	
Honing Stone Set 29000784	1.00	27.44	27.44		
Surf Cond Disc 7480	4.00	6.41	25.64		
Green Corp Roloc Disc 01408	2.00	9.81	19.62		
HD Brake Spring HDW Kit 28001KT	4.00	18.63	74.52		
Prem New Brake Shoe 23000# 3124707QP	8.00	79.63	637.04		
Syn Slide Lubricant BK4	4.00	6.69	26.76		
Retainer Cmpd 4C9507	1.00	22.91	22.91		
Emery Cloth 05002	72.00	0.64	46.08		
OIL SEAL 370003A	4.00	59.76	239.04		
Hi Tmp Bearing Grease APIGS125	4.00	8.61	34.44		
SiliconeSealer 81878	2.00	5.96	11.92		
Mult Hole Lock Ring 6129852	4.00	21.08	84.32	Remove and replace Chalmers rubber covers on left and right side.	0.00
Lock Retainer 6002589	4.00	10.77	43.08	During brake repairs above and with all wheels and tire removed perform necessary repairs on chalmers suspension. Unit equipped with suspension stops to prevent suspension from relaxing when outriggers supporting unit. Support arms and cut off stops on right side. Using necessary hydraulics press arms down in order to remove rotted and broken cover and rubber spring on right side. Remove retainer bolts and cut welds on lower retainer steel pad and aligning sleeve. Remove unit. Dress all areas. Locate and ship in necessary OEM Chalmers components. Install new lower plate and secure with new hardware. Weld in position as needed. Install new HD rubber spring and top cover retainer with additional shim plate. Pres assembly into position as needed. Remove hydraulics and allow suspension to compress and secure. Weld	
3al Brake Drum Assy 66884B	4.00	237.15	948.60		
Surf Cond Disc 7485	2.00	6.97	13.94		
Axle Aligning Cone 5962331	7.00	6.06	42.42		

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Steel Retainer Stud 5920587	14.00	8.71	121.94	<p>all related areas once satisfied with position. Clean and weld in lower stop as original to prevent suspension relax during outrigger operation. Clean prime and paint all repaired areas. Perform identical procedure on the left side of unit. Once all repairs complete verify operation and check for movement after road test.</p> <p>Remove and replace rear shocks left and right side during suspension repairs.</p> <p>During suspension repairs found rear shocks rotted and not working. Heat all areas and remove or burn off retainer bolts. Clean and dress mounting brackets. Install new HD gas magnum shocks two per side. Secure with new HD retainer bolts and hardware. Torque retainers.</p> <p>Remove and replace leaking rear end input seal, replace fluid in both rear ends.</p> <p>Free up and remove closed yoke u-joint on input of forward rear end. Remove drive shaft. Heat and remove retainer yoke nut. Pull off yoke and spacers. Drill and remove input shaft seal on rear end. Clean and dress all areas. Found yoke worn at seal areas and needs replacement. Locate and ship in new unit. Install new upgraded input shaft OEM seal and secure. Install necessary washers, shims and spacers as needed. Install new yoke end and secure. Install new flange lock nut and torque to spec. Remove and replace worn and rusted u-joint assy on drive shaft with OEM unit. Install shaft on truck and secure to new end yoke. Lubricate all areas. Drain all fluid from both rear ends due to excessive water contamination. Remove and clean both breathers. Fill with fresh fluid. After road test verify no further leaks and top off fluids as needed.</p> <p>Repair muffler outlet clamp.</p> <p>During repairs found tail pipe movement excessive. Outlet clamp and outlet of muffler rotting away. Cut off original clamp and install new unit. Secure and tighten tail pipe. If problem persist, muffler will need replacement due to rot on outlet extension.</p> <p>Labor Charge</p> <p>Labor rate for shop is 108.95/hour, reduced to 98.50/hour as always for CFD. Approx 55 hours in repairs, customer only charged for 47.25 and no overtime rates applied despite working after hours to complete repairs as efficiently as possible.</p> <p>Environmental Fee</p>		
Threadlock 242	1.00	9.36	9.36			
HD Axle Flange Gasket E2435HD	4.00	10.67	42.68			0.00
Nylon Lock Nut 8HNLN58F	32.00	3.11	99.52			
Cut Off Wheel 01989	6.00	11.93	71.58			0.00
Fibre Disc 01915	2.00	10.78	21.56			
Grinding Wheel WA1226	1.00	11.29	11.29			
HD Steel Restrictor Can 373028	2.00	218.75	437.50			
HD Metal Retainer Support Plate 427185	2.00	196.22	392.44			
HD Rubber Spring 9.50 15002	2.00	688.79	1,377.58			
Lithoplex Press Lube PS24968	2.00	9.73	19.46			0.00
HD Aligning Sleeve 829655	2.00	23.59	47.18			
1x Head Cap Screw Kit 8B38X175CK	4.00	2.76	11.04			4,654.13
Rst Tgh Primer 20-1631	1.00	13.98	13.98			
Rst Tgh Paint 20-1615	1.00	14.79	14.79			15.95
Welding Rod 6011	28.00	1.28	35.84			
HD Gas Magnum Shock 66636	4.00	71.62	286.48			
solator Install Kit 29658KT	4.00	14.55	58.20			

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 VIN # : 1K9AF648X YN058211

Part Description / Number	Qty	Sale	Ext	Labor Description	Extended
Vnt Bolt Kit 75BX350CK	4.00	9.67	38.68		
Vnt Bolt kit 75BX675CK	4.00	14.21	56.84		
Surf Cond Disc 7513	2.00	8.81	17.62		
Machined TMP Spacer .1562 S78544	1.00	44.19	44.19		
Metal Shim .0469 S26412	1.00	37.63	37.63		
nput Seal, Rear End R945007	1.00	119.56	119.56		
-HDW Install Kit 2638HT	1.00	45.61	45.61		
-HD End Yoke Assy 6.5-4-3731X	1.00	373.74	373.74		
TMD FLG Yoke Lock Nut 40X1233	1.00	43.68	43.68		
Sandpaper 02175	6.00	2.29	13.74		
J-Jiont Assy 5-281X	1.00	159.77	159.77		
Solvent Flush F610997	4.00	9.91	39.64		
-HI TEMP GEAR LUBE APIGL5	78.00	5.09	397.02		
SS Seal Band Clamp X004484	1.00	22.74	22.74		
Freight Charge Freight	1.00	76.95	76.95		
Shop Supplies			9.95		

**** Recommendations ****
 Steer axle spring hangers, rear worn and need replacement.

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[Technicians : Vecchio, JR, Theodore 20; Vecchio, Joseph 21]

Org. Estimate	\$ 11,602.19	Revisions	\$ 0.00	Current Estimate	\$ 11,602.19	Additional Cost	Revised Estimate	Labor:	4,654.13
								Parts:	6,932.11
								Sub:	11,586.24
								Tax:	0.00
								HazMat:	15.95
								Total:	\$11,602.19
								Bal Due:	\$11,602.19

[Payments -]

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 and 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..... Time.....