

**CITY OF FERNDALE
REQUEST FOR COUNCIL ACTION**

FROM: Roger Schmidt, Fire Chief

SUBJECT: Emergency Repairs, Aerial Ladder Truck

SUMMARY & BACKGROUND:

I am pleased to inform Council that our aerial ladder truck is finally back in service after almost three months. As you will recall, I forewarned you about a month ago that the repair bill would coming and would be significant. A major gear had to be replaced in the ladder raising mechanism and a new core installed in the radiator. Before the truck was placed back in service, an additional repair had to done by the mechanics at the City Yard to the power take-off unit, and that is not reflected in this bill.

ATTACHMENTS: Invoice from R & R Fire Truck Repair

COUNCIL AGENDA DATE: December 22, 2008

CITY ATTORNEY REVIEW: N/A

FINANCE DIRECTOR REVIEW: JCHubanks, 12/08/08

RECOMMENDED ACTION:

Moved by , seconded by , to authorize payment to R & R Fire Truck Repair of Northville, Michigan in the amount of \$8,257.17 for emergency repairs to the 1989 Seagrave aerial ladder truck. Funds for this expenditure are available in Account # 661-000-977, Motor Pool Capital Outlay.

R&R Fire Truck Repair

751 Doheny
 Northville, MI 48167
 Phone (248) 344-4443
 Fax (248) 344-8630

SERVICE INVOICE: 034724

Invoice Date: 12/02/2008
 PO Number:
 Payment Terms: Net 30
 Service Call ID: NOR0006914

BILL TO:
FERNDALE
 Ferndale Fire Department
 1635 Livernois
 Ferndale, MI 48220

Unit	Year	Make	Model	VIN	Engine	Hours	Mileage
Ferndale L-1	1988	SEAGRAVE	LADDER	1F9FU28WXKCST2001	Det Sil 92	2,693.0	20,107
ITEM ID	DESCRIPTION			QTY	UNIT PRICE	EXT PRICE	
AA	Recore Radiator			1.00	2,696.00	2,696.00	
7905	Radiator Hose, 90 deg. Common			2.00	25.34	50.68	
25-9530	V-Belt			3.00	27.16	81.48	
705-1020	#40 Hose Clamp			4.00	2.56	10.24	
F9800-8K3B	Hydraulic Filter			1.00	47.62	47.62	
SEA-456946	Gear , Extension			1.00	1,550.00	1,550.00	
3022	Gasket Material			1.00	6.48	6.48	
9319	V Belts			2.00	28.46	56.92	
SEA-457143	Gasket, Ext Gear Hsg. Cover			1.00	0.90	0.90	
4661	T-Stat Seal			1.00	8.28	8.28	
5100860	Gasket			1.00	8.30	8.30	
23503825	Thermostat, 180			1.00	97.90	97.90	
609	12" -1-1/2" Coolant hose Per Ft			0.50	14.96	7.48	
5581-125X36	1-1/4" ID Silicone Coolant Hose			4.00	2.40	9.60	
620	3" Coolent Hose Per Foot			1.50	27.68	41.52	
611	1-3/4 Coolant Hose Per Foot			0.25	15.96	3.99	
80234GL	1"Heater Hose Per Ft			0.75	7.10	5.33	
NEO18	Gasket Material			1.00	8.06	8.06	
2G023007	Retinax Grease			1.00	6.40	6.40	
GR231C	Food Machinery Grease			2.00	15.40	30.80	
LABOR	Labor			1.00	3,450.00	3,450.00	
ATF	Automatic Transmission Fluid			1.00	16.48	16.48	
80/90	Gear Oil			3.00	4.86	14.58	

You are entitled by law to the return of all parts replaced, except those which are too heavy or large, and those require to be sent back to the manufacutrer or distributor because of warranty work or an exchange agreement. You are entitled to inspect the parts which cannot be returned to you.

Parts	4,759.04
Labor	3,450.00
Travel	0.00
EPA Fee	0.00
Misc Charges	0.00
Shipping	48.13
Sales Tax	0.00
Total Amount	8,257.17

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Radiator was deteriorated due to age. Drained coolant. Removed roof and engine dog house to access. Removed all hoses, fan, and shrouding. Removed all radiator brackets. Removed old radiator and sent out to be recored. Removed cooling belts and thermostats. Installed new thermostats with gaskets. Installed three new belts. Upon return of recored radiator we installed in unit. Installed new cooling hoses and reassembled engine components. Filled with antifreeze and ran to operating temperature. Checked for any leakage. None found. When engine cooled we rechecked antifreeze level and topped off antifreeze. Reassembled dog house and installed roof panel.

Altenator belts were worn. Removed and installed two new alternator belts.

Perform aerial service and checked for reason for the ladder to knock during operation, extend / retract. Cleaned and lubed complete aerial including waterways and all zirts. Removed and installed new hydraulic filter on aerial. Adjusted aerial cables and torqued all turn table bolts to specifications. Removed cover to the gear. Inspected for noisy gear problem. Found the brass gear to be damaged from wear. Informed department and received authorization to repair as needed.

Removed hydraulic motor to access. Removed bearing to access gear. Removed gear and found the teeth were damaged, worn out from years of service. Installed new worm gear and new gaskets. Parts are getting difficult to get, no longer stocked. Repacked bearing and reinstalled bearing and motor. Installed cover and filled with gear fluid. Torqued to specifications and tested operation. All in good working order now.

Thank you for your business !

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