



# Burlington Fire Department

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TO: **Board of Finance and City Council**

FROM: Seth Lasker, Fire Chief

VIA: Lise E. Veronneau, Business Administrator  
BURLINGTON FIRE & POLICE DEPARTMENTS

DATE: April 18, 2013

RE: FY 13 – Budget Amendment for funds to repair Rescue 2

The **Burlington FIRE Department** respectfully requests a budget amendment to increase the vehicle maintenance budget in order to replace the engine on Rescue 2, a 2006 F450 Super Duty with 10,421 hours on it.

## FIRE Expenditure Budget

### INCREASE:

101-15-040-8005	Vehicle/Equipment Repairs	\$ <u>14,214.42</u>
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Rescue #2 has been out of service for 4 weeks due to engine problems, on Friday afternoon, 4/12/2013, it was determined that it will need a minimum of \$4000.00 in repairs, but the recommendation from the experts is to replace the entire engine at a cost of \$14,214.42. Chief Lasker concurs with the total replacement of the engine. Rescue #2 will (upon replacement of Rescue#3) be rotated to the spare position and retained by the department for several more years.

See attached memo from the City of Burlington Department of Public Works Fleet Manager, Claude Raineault for additional details.

CC: Scott Schrader, Asst CAO



**CITY OF BURLINGTON  
DEPARTMENT OF PUBLIC WORKS**

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**Steven Goodkind, P.E.**  
DIRECTOR OF PUBLIC WORKS  
CITY ENGINEER

**Claude Raineault**  
FLEET MANAGER

April 10, 2013

To Chief Seth Lasker

This is in reference to Rescue Two which is out of service at this time with an engine malfunction. Rescue Two is a 2006 F450 Super Duty with 10,421 hours on it. The engine had developed a misfire which we identified as number six cylinder. We sent the unit to Heritage Ford to have repaired. Upon diagnosing they found a problem in the valve train with that cylinder. Upon disassembling the cylinder head they found worn exhaust guides and stems for that cylinder. DPW technician Paul Haynes and myself inspected the engine while torn down and verified the wear and also the wear in the cylinders. The possibility of another failure is high if this engine is repaired with this many hours on it.

The estimated cost to repair the engine without any warrantee other than defective parts replaced is \$3811.41 (parts and labor). The estimated cost to replace the long block minus injectors and turbocharger is \$11,719.00. Injectors would cost \$244.28 each x 8 (\$1954.24) The turbocharger bought separately would cost \$1401.25. The warrantee on those items as its not part of the remanufactured engine would be one year. The estimated cost to replace the engine with a remanufactured engine complete with injectors and turbo charger is \$14,214.42.(parts and labor). I also priced a complete remanufactured engine thru Vermont Engine Service, the cost of the unit was \$ 14,140 with out any labor factored in ( cost would be higher than Heritage). It may cost more up front by replacing with a complete unit but by including the injectors and the turbocharger, would cost less than buying the injectors or turbo separate and prevent any additional spending after the engine is replaced should an injector or the turbo go bad. The warrantee on a complete remanufactured engine thru Ford is two years unlimited mileage.

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This Rescue will be in the fleet for many years and it is my opinion to replace the engine with a genuine Ford remanufactured engine.

Respectfully

Claude Raineault