



General Engineering - License No. 623944-A
P.O. Box 758, Somis, CA 93066
(805) 389 4655 - Fax (805) 389 4650

633D Scraper repower cost \$155,105.45 with a tier 3 engine at 500hp.

633D Scraper retrofit level 3 cost \$42,756.85 to handle 500hp.

Appendix A:

Modeling the cost and emissions reductions.

Pg. H-10

Cost of repower \$270.00 per hp

\$270 x 500hp = \$135,000.00

Actual cost of repower

\$310.2109 x 500hp = \$155,105.45

Pg. H-11

Cost of retrofit

Horsepower range 400 plus cost \$30,000.00

- **Retrofit actual cost \$42,756.85**
- **This is the cost for a retrofit on top of a tier 3 engine.
(To retrofit a tier 0 engine) = \$68,047.00**

**CARL MOYER PROGRAM – VCAPCD
USE THIS PAGE FOR MOBILE OFF-ROAD EQUIPMENT
ENGINE REPLACEMENTS (REPOWERS)**

<p>1. Number of units to be repowered: <u>Unit # 633-01</u></p>	<p>2. Primary function of this equipment: <u>Earth Moving</u></p>																								
<p>3. Annual hours of operation: <u>2,000</u> hrs..</p>	<p>4. Annual fuel consumption: <u>44,000</u> gallons</p>																								
<p>5. Percent of operation in Ventura County: <u>50</u> %</p>	<p>6. Percent of operation in California: <u>100</u> %</p>																								
<p>7. Is there any seasonality to the use of the vehicle? <u>YES/NO</u> If Yes, please explain: <u>Yes, Rainy Days</u></p>	<p>8. Equipment make: <u>Caterpillar</u> Equipment model: <u>633D Scraper</u> Model year: <u>1978</u> GVW _____ pounds VIN _____</p>																								
<p>9. Old Baseline Engine: Manufacturer: <u>Caterpillar</u> Model Number: <u>3408</u> Model Year: <u>1978</u> Certification Tier (if any): <u>T0</u> Engine Serial Number: <u>25W00670</u> Horsepower Rating : <u>450</u> Displacement: _____ Configuration (e.g. V8,Turbo): <u>Turbo V8</u></p>	<p>10. New Reduced Emission Engine: Manufacturer: <u>Caterpillar</u> Model Number: <u>C18</u> Model Year: <u>07</u> Certification Tier: <u>* 3</u> Horsepower Rating: <u>500</u> Displacement: _____ Configuration (e.g. V8,Turbo): <u>Turbo 6cyl</u> Make and Model of DECS: <u>HUSS FS200MKL</u> Certification Level of DECS: <u>* 3</u></p>																								
<p>11. Estimated Engine Life: <u>7</u> Years</p>	<p>12. Replacement Schedule: <u>7</u> Years:</p>																								
<p>13. Owner Contribution:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Rebuild Cost:</td> <td style="text-align: right;">\$ <u>17,850.00</u></td> </tr> <tr> <td>Additional Owner Contribution</td> <td style="text-align: right;">\$ <u>2,500.00</u></td> </tr> <tr> <td>Total Owner Contribution</td> <td style="text-align: right;">\$ <u>20,350.00</u></td> </tr> </table>	Rebuild Cost:	\$ <u>17,850.00</u>	Additional Owner Contribution	\$ <u>2,500.00</u>	Total Owner Contribution	\$ <u>20,350.00</u>	<p>14. Project Costs:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Engine Cost:</td> <td style="text-align: right;">\$ <u>59,984.37</u></td> </tr> <tr> <td>Engine Installation Cost (labor):</td> <td style="text-align: right;">\$ <u>27,500.00</u></td> </tr> <tr> <td>Related Parts Cost:</td> <td style="text-align: right;">\$ <u>58,995.07</u></td> </tr> <tr> <td>* Estimated Taxes</td> <td style="text-align: right;">\$ <u>8,626.01</u></td> </tr> <tr> <td>DECS Cost</td> <td style="text-align: right;">\$ <u>37,722.00</u></td> </tr> <tr> <td>DECS Installation Cost:</td> <td style="text-align: right;">\$ <u>2,300.00</u></td> </tr> <tr> <td>Related Parts Cost:</td> <td style="text-align: right;">\$ <u>Included</u></td> </tr> <tr> <td>* Estimated Taxes</td> <td style="text-align: right;">\$ <u>2,734.85</u></td> </tr> <tr> <td>Total Project Cost</td> <td style="text-align: right;">\$ <u>197,862.30</u></td> </tr> </table>	Engine Cost:	\$ <u>59,984.37</u>	Engine Installation Cost (labor):	\$ <u>27,500.00</u>	Related Parts Cost:	\$ <u>58,995.07</u>	* Estimated Taxes	\$ <u>8,626.01</u>	DECS Cost	\$ <u>37,722.00</u>	DECS Installation Cost:	\$ <u>2,300.00</u>	Related Parts Cost:	\$ <u>Included</u>	* Estimated Taxes	\$ <u>2,734.85</u>	Total Project Cost	\$ <u>197,862.30</u>
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<p>17. Manufacturer/Dealer: <u>Caterpillar Quinn Co.</u></p>	<p>18. Manufacturer/Dealer Contact: <u>Cliff McLaughlin</u></p>																								
<p>19. Address/Phone <u>801 Del Norte Blvd. Oxnard, Ca 93030 (805) 432 - 9511</u></p>																									



REPAIR ESTIMATE

Quinn Group, Inc.

QUINN COMPANY / 801 DEL NORTE BLVD. / OXNARD, CALIF. 93030

Bakersfield 661-393-5800
 Corcoran 559-992-2193
 Firebaugh 559-659-3444
 Fresno 559-896-4040
 Oxnard 805-485-2171
 Salinas 831-758-8461
 Santa Maria 805-925-8611

Customer: CAMARILLO ENGR.
Address:

Attn: DAVE
Fax:

Date: March 20, 2007
Machine: CAT
Model: 633D
Serial No: 25W00670
Equip No: 633-01
Svc Meter Hrs:

DESCRIPTION OF REPAIRS	PARTS		LABOR		TOTAL
	Estimate <input checked="" type="checkbox"/>	Firm Price <input type="checkbox"/>	Estimate <input checked="" type="checkbox"/>	Firm Price <input type="checkbox"/>	
<input type="checkbox"/> Field Repair <input checked="" type="checkbox"/> Shop Repair					
SUPPLY NEW CAT TIER-3 ENGINE					\$59,984.37
SUPPLY INSTALLATION PARTS					58,995.07
LABOR TO REPOWER STATED UNIT					\$27,500.00
			SUB TOTAL		146,479.44
*SALES TAX (ESTIMATE ONLY)					\$8,626.01
SUPPLY HUSS,LLC. VDECS DUAL FUEL SYSTEM					\$37,722.00
HUSS,LLC. INSTALLATION OF STATED DEVICE					\$2,300.00
			SUB TOTAL		\$40,022.00
SALES TAX (ESTIMATE ONLY)					\$2,734.85

Note: Additional hard parts and machine work, if necessary, are not included in the quote.
 Price does not include California sales tax, if applicable. Cores subject to inspection.

THIS ESTIMATE IS BASED ON LABOR RATES, PARTS PRICES, AND CONDITION OF THE MACHINE EXISTING ON THE DATE OF THE ESTIMATE INDICATED ABOVE. THE CUSTOMER WILL BE INFORMED OF ANY REVISIONS IN LABOR RATES, PARTS PRICES OR ADDITIONAL WORK REQUIRED BEFORE THE WORK STARTED. THIS ESTIMATE DOES NOT INCLUDE TRAVEL TIME AND MILEAGE, FREIGHT, SHIPPING CHARGES, ENVIRONMENTAL FEE OR TAXES WHERE APPLICABLE. THIS ESTIMATE IS EFFECTIVE FOR 30 DAYS FROM THE DATE INDICATED ABOVE.

Thank you for giving QUINN COMPANY the opportunity to quote your service repair options.

Signed  