



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)

1. Number of units to be repowered: <u>Unit # 633-01</u>	2. Primary function of this equipment: <u>Earth Moving</u>
3. Annual hours of operation: <u>2,000</u> hrs..	4. Annual fuel consumption: <u>44,000</u> gallons
5. Percent of operation in Ventura County: <u>50</u> %	6. Percent of operation in California: <u>100</u> %
7. Is there any seasonality to the use of the vehicle? <u>YES/NO</u> If Yes, please explain: <u>Yes, Rainy Days</u>	8. Equipment make: <u>Caterpillar</u> Equipment model: <u>633D Scraper</u> Model year: <u>1978</u> GVW _____ pounds VIN _____
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>	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>
11. Estimated Engine Life: <u>7</u> Years	12. Replacement Schedule: <u>7</u> Years:
13. Owner Contribution: Rebuild Cost: \$ <u>17,850.00</u> Additional Owner Contribution \$ <u>2,500.00</u> Total Owner Contribution \$ <u>20,350.00</u>	14. Project Costs: 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>
15. Equipment Funding Requested a. Total Project Cost \$ <u>197,862.30</u> b. Owner Contribution \$ <u>20,350.00</u> c. Funding Requested (a – b): \$ <u>177,512.30</u>	* Attach quotes from vendors and explanatory letters from manufacturers if proposed replacement engines are certified at less than Tier 3 and/or retrofits are certified at less than Level 3.
17. Manufacturer/Dealer: <u>Caterpillar Quinn Co.</u>	18. Manufacturer/Dealer Contact: <u>Cliff McLaughlin</u>
19. Address/Phone <u>801 Del Norte Blvd. Oxnard, Ca 93030 (805) 432 - 9511</u>	



REPAIR ESTIMATE

Quinn Group, Inc.

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

Bakersfield
861-393-5800

☐ 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	<input type="checkbox"/> Field Repair <input checked="" type="checkbox"/> Shop Repair	PARTS	LABOR	TOTAL
		Estimate <input checked="" type="checkbox"/> Firm Price <input type="checkbox"/>	Estimate <input checked="" type="checkbox"/> Firm Price <input type="checkbox"/>	
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