



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

Wednesday, April 11, 2007

D10N Crawler dozer repower cost \$228,546.44 with a tier 2 engine at 557hp.

D10N Crawler tractor retrofit level 3 cost \$42,756.85 to handle 557hp.

Appendix A:

Modeling the costs and emissions reductions.

Pg. H-10

Cost of repower \$270.00 per hp.

\$270.00 x 557hp = \$150,390.00

Actual cost of repower

\$410.3174865 x 557hp = \$228,546.84

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 2 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 # D10N-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>40,000</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>D10N Dozer</u> Model year: <u>1990</u> GVW _____ pounds VIN _____
9. Old Baseline Engine: Manufacturer: <u>Caterpillar</u> Model Number: <u>3412</u> Model Year: <u>1990</u> Certification Tier (if any): <u>T0</u> Engine Serial Number: <u>73W12379</u> Horsepower Rating <u>520</u> Displacement: _____ Configuration (e.g. V8,Turbo): <u>Turbo V12</u>	10. New Reduced Emission Engine: Manufacturer: <u>Caterpillar</u> Model Number: <u>3412E</u> Model Year: <u>07</u> Certification Tier: <u>* T2</u> Horsepower Rating <u>557</u> Displacement: _____ Configuration (e.g. V8,Turbo): <u>Turbo V12</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>23,475.00</u> Additional Owner Contribution \$ <u>2,500.00</u> Total Owner Contribution \$ <u>25,975.00</u>	14. Project Costs: Engine Cost: \$ <u>76,779.57</u> Engine Installation Cost (labor): \$ <u>45,161.00</u> Related Parts Cost: \$ <u>94,209.56</u> * Estimated Taxes \$ <u>12,396.71</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>271,303.69</u>
15. Equipment Funding Requested a. Total Project Cost \$ <u>271,303.69</u> b. Owner Contribution \$ <u>25,975.00</u> c. Funding Requested (a – b): \$ <u>245,328.69</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>	

QUINN**REPAIR ESTIMATE**

Quinn Group, Inc.

QUINN COMPANY / 801 DEL NORTE BLVD. / OXNARD, CALIF. 93030Bakersfield
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
805-925-8611Customer: **Camarillo Engr.**
Address:Attn: DAVE
Fax:Date: March 29, 2007
Machine: CAT
Model: D10N
Serial No: 2YD01620
Equip No: D10-01
Svc Meter Hrs:

DESCRIPTION OF REPAIRS	PARTS		LABOR		TOTAL
	<input type="checkbox"/> Field Repair <input checked="" type="checkbox"/> Shop Repair	Estimate <input checked="" type="checkbox"/> Firm Price <input type="checkbox"/>	<input type="checkbox"/> Field Repair <input checked="" type="checkbox"/> Shop Repair	Estimate <input checked="" type="checkbox"/> Firm Price <input type="checkbox"/>	
SUPPLY NEW CAT TIER-2 ENGINE					\$76,779.57
SUPPLY INSTALLATION PARTS					94,209.56
LABOR TO REPOWER STATED UNIT					\$45,161.00
				SUB-TOTAL	216,150.13
*SALES TAX (ESTIMATE ONLY)					\$12,396.31
SUPPLY HUSS,LLC. VDECS DUAL SYSTEM DEVICE					\$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