



DCL International Inc.

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Quotation

To:	Bruce Barney	Phone:	503-464-7812
	Portland General Electric	Fax:	503-464-7162
		e-mail:	Bruce_barney@pgn.com
Date:	9/18/2003	No. Pages:	2 (incl.)

RE: DIESEL OXIDATION CATALYTIC CONVERTER

Quote No.: 6-522

Bruce,

The quote you requested is as follows:

Project Name	Stimson Lumber
Engine Model	CAT D348
Power	850-900 hp
Fuel	#2 diesel

Expected Emission Reduction for Exhaust (fresh catalyst at full load conditions)	NO _x - Nil CO - 82% THC* - 52% Diesel Particulate Matter - up to 40% (depending on fuel, engine tuning, and exhaust temperature)
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* Including odor causing compounds

Solution:

MINE-X[®] Model DC16-x catalytic converter with patented brazed catalyst substrate, quick-release clamps, ANSI flanges, and standard monitoring ports.

- Estimated Pressure Drop: 4-6" w.c.
- Diameter: 14.5"
- Length: 21.5"
- Pipe Connection: as required
- Approx. Weight: 53 lbs.

Unit Price: \$2400 USD each, exWorks DCL

Quantity: 1

Delivery Time: 1-2 weeks

This quotation is subject to DCL's standard terms and conditions of sale and limited warranty statement(s). Copies of such terms and conditions of sale and limited warranty statement(s) are available from DCL upon request. This quote is valid for a period of 90 days.

Please note: Our prices are based on today's precious metal prices. DCL reserves the right to revise this quote should changes occur in the spot prices of the precious metals used in the above product(s).

Thank you for the opportunity to quote on your emission control equipment. Please contact me if you have any questions or concerns.

Best Regards,
DCL International Inc.



Paul Cook

ISO 9001 Registered • Manufacturer of MINE-X® & QUICK-LID™ Catalytic Converters

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JU6H-UFADMG
 JU6H-UFAD58
 JU6H-UFADNG
 JU6H-UFADNO

JU6H-UFADP0
 JU6H-UFADP8
 JU6H-UFADQ0
 JU6H-UFAD88

JU6H-UFADR0
 JU6H-UFADR8
 JU6H-UFADS8
 JU6H-UFADS0

JU6H-UFADT0
 JU6H-UFADW8
 JU6H-UFADX8
 JU6H-UFAD98

FM-UL-cUL APPROVED RATINGS BHP/KW

JU6H MODEL	RATED SPEED								US-EPA (NSPS) Available Until
	1760		2100		2350		2400		
UFADMG			175	131	175	131			No Expiration
UFAD58	183	137							No Expiration
UFADNG	190	142	181	135	183	137	183	137	No Expiration
UFADN0	197	147	197	147	200	149	200	149	No Expiration
UFADP0			209	156	211	157	211	157	No Expiration
UFADP8	220	164							No Expiration
UFADQ0			224	167	226	169	226	169	No Expiration
UFAD88	237	177							No Expiration
UFADR0			238	177.5	240	179	240	179	No Expiration
UFADR8	250	187							No Expiration
UFADS8	260	194							No Expiration
UFADS0			260	194	268	200	268	200	No Expiration
UFADT0			274	204	275	205	275	205	No Expiration
UFADW8	282	211							No Expiration
UFADX8	305	227.5							No Expiration
UFAD98	315	235							No Expiration



Picture represents JU6H-TRWA Power Tech Plus Engine Series

● USA EPA (NSPS) Tier 3 Emissions Certified Off-Road (40 CFR Part 89) and NSPS Stationary (40 CFR Part 60 Sub Part III). Meet EU Stage IIIA emission levels.

◆ All Models available for Export

SPECIFICATIONS

ITEM	JU6H MODELS															
	MG	58	NG	N0	P8	88	P0	Q0	R0	S0	T0	R8	S8	W8	X8	98
Number of Cylinders	6															
Aspiration	TRWA															
Rotation*	CW															
Overall Dimensions – in. (mm)	59.8 (1519) H x 56.7 (1414) L x 36.7 (933) W								60.9 (1547) H x 58.6 (1488) L x 40.0 (1015) W							
Crankshaft Centerline Height – in. (mm)	14 (356)															
Weight – lb (kg)	1747 (791)															
Compression Ratio	19.0:1								17.0:1							
Displacement – cu. in. (L)	415 (6.8)															
Engine Type	4 Stroke Cycle – Inline Construction															
Bore & Stroke – in. (mm)	4.19 x 5.00 (106 x 127)															
Installation Drawing	D628															
Wiring Diagram AC	C07651															
Wiring Diagram DC	C071367, C072146, C071361								C071368, C072146, C071761							
Engine Series	John Deere 6068 Series Power Tech E								John Deere 6068 Series Power Tech Plus							
Speed Interpolation	N/A															

Abbreviations: CW – Clockwise TRWA – Turbocharged with Raw Water Aftercooling N/A - Not Available L – Length W – Width H - Height

*Rotation viewed from Heat Exchanger / Front of engine

CERTIFIED POWER RATING

- Each engine is factory tested to verify power and performance.
- FM-UL power ratings are shown at specific speeds, Clarke engines can be applied at a single rated RPM setting ± 50 RPM.

ENGINE RATINGS BASELINES

- Engines are to be used for stationary emergency standby fire pump service only. Engines are to be tested in accordance with NFPA 25.
- Engines are rated at standard SAE conditions of 29.61 in. (752.1 mm) Hg barometer and 77°F (25°C) inlet air temperature [approximates 300 ft. (91.4 m) above sea level] by the testing laboratory (see SAE Standard J 1349).
- A deduction of 3 percent from engine horsepower rating at standard SAE conditions shall be made for diesel engines for each 1000 ft. (305 m) altitude above 300 ft. (91.4 m)
- A deduction of 1 percent from engine horsepower rating as corrected to standard SAE conditions shall be made for diesel engines for every 10°F (5.6°C) above 77°F (25°C) ambient temperature.

