		ntal Protection	
AIR	RESO	URCES	BOARD

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapters 1 and 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the engine and exhaust emission control system produced by the manufacturer are certified as described below for all-terrain vehicles. Production vehicles, and engines that power such vehicles, shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	ENGINE DISPLACEMENT (cc)	VEHICLE TYPE	FUEL TYPE	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS
2005	5POLX.7604EA	683 and 760	ATV	Gasoline	MFI
MFI T	Bisthrottle body fuel inion	tion DElectron fuel intention	n Aik=secondary air injection	PAIK=pulsed All	g catalyst worwc/wuoc≖warm-up rwc/oc R MFI≃multi port fuel injection SFi≃sequentia
	LE MODELS /	don Drisdirect ider injection	TC/SC=turbo/super charger C	AC=charge air co	oler 2 (prefix)=parailei (2) (suffix)=in series

The following are the exhaust hydrocarbons plus oxides of nitrogen (HC+NOx) and carbon monoxide (CO) standards, or designated HC+NOx standard as applicable, and certification levels in grams per brake horsepower-hour (g/bhp-hr) for this engine family. The designated HC+NOx standard, as applicable, shall be displayed on the permanent emission control label. Vehicles within this engine family, and engines that power such vehicles, shall not discharge any crankcase emissions into the ambient atmosphere in conformance with Title 13, California Code of Regulations, (13 CCR) Section 2412(i),

	HC+NOx (	g/bhp-hr)		CO (g/b	hp-hr)	
CORPORATE AVERAGE STANDARD	DESIGNATED STANDARD	(DIRECT) STANDARD		STANDARD	CERTIFICATION	* = not applicable
*	*	10.0	6.7	300	178	

**BE IT FURTHER RESOLVED**: That pursuant to 13 CCR Section 2412(e), the listed vehicles, and engines that power such vehicles, were tested in accordance with the incorporated small off-road engine test procedures, and have demonstrated compliance with the applicable emission standards.

**BE IT FURTHER RESOLVED:** That certification to the designated HC+NOx standard listed above, as applicable, is subject to the following terms, limitations and conditions:

The designated standard shall be the exhaust limit for this engine family for the model year and cannot be changed by the manufacturer. It serves as the exhaust standard applicable to this engine family for determining engine family compliance, and compliance with the corporate average HC+NOx standard in accordance with 13 CCR Sections 2412(b), (d) and (e) and 2414.

**BE IT FURTHER RESOLVED:** That the listed vehicles, and engines that power such vehicles, shall be subject to 13 CCR Section 2414 (enforcement and recall provisions).

**BE IT FURTHER RESOLVED**: That the listed vehicles, and engines that power such vehicles, shall comply with 13 CCR Sections 1965 and 2413 (emission control labels).

Vehicles, and engines that power such vehicles, certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Vehicles, and engines that power such vehicles, in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this \_\_\_\_\_ day of April 2004.

(HAMIS) Allen Lyons, Chief

Allen Lyons, Chief Mobile Source Operations Division

DEL-YEAR     2005     MANUFACTURER:     EXECUTIVE ORDER:     U/1-0/5       EPA-Standardized Family Name:     5POLX/7804EA				RCES BO		OFF-ROAD I	MCs & ATVs
Vehicle Category:   ATVE     All Sales Codes within Engine Family:   505     All Engine Displacement(s) in Engine Family (units in outic centimeters, (cc)):   1)     1)   563   2)   760   3)   4)     Emission Standards Compliance:   DSC   If Corporate Averaging, list Designated Standard:   for   HC+N0x     Engine Design:   8. Intake, Fuel and Emission Control Systems (ECS):   8. Intake, Fuel and Emission Control Systems (ECS):     a. Combustion Cycle:   four-atroke   8. Intake, Fuel and Emission Control Systems (ECS):     a. Combustion Cycle:   four-atroke   8. Intake, Fuel and Emission Control Systems (ECS):     a. Combustion Cycle:   four-atroke   b. Sensor(s):   i.     c. Valvetrain:   Overhead   d. Exhaust Gas Recirculations   i.     d. Total Number of Intake and Exhaust   overhead   d. Exhaust Gas Recirculations   i.     valvetrain:   Overhead   g. Others:   g.   g. Others:   g.     f. Number of Cylinder:   2   g. Others:   g.   g. Others:   g.     g. Cylinder Arrangement:   1   ID   Others:   G.   Goody form Cet Arrangement:   g.			CTURER:			CECUTIVE ORI	DER: <u>U-M-013</u>
All Sales Codes within Engine Family:   593     All Engine Displacement(s) in Engine Family (units in cubic centimeters, (cc)):   1)   cas   2)   760   3)   4)     Emission Standards Compliance:   DSC   for   HC+NOX   Engine Design:   8. Intake, Fuel and Emission Control Systems (ECS):     a Combustion Cycle:   four-stroke   a. Intake, Fuel and Emission Control Systems (ECS):   b. Sensor(s):   c. Fuel System:   MFI     d. Total Number of Intake and Exhaust valves (Ports) per Cylinder:   2   g. Others:   g. Others: <th>EPA-Standardize</th> <th>ed Family Nar</th> <th>ne:5POLX</th> <th>(.7604EA</th> <th>······································</th> <th></th> <th></th>	EPA-Standardize	ed Family Nar	ne:5POLX	(.7604EA	······································		
All Engine Displacement(s) in Engine Family (units in cubic centimeters, (cc)):   1   93   2   760   3   4     Emission Standards Compliance:   DSC   DSC   1   6   1		, ·	······································				
1)     633     2)     760     3)     4)       Emission Standards Compliance:     DSC       for HC+NOX       Engine Design.     8. Intake, Fuel and Emission Control Systems (ECS):       a. Combustion Cycle:     for HC+NOX       b. Engine Type:     NAT       c. Yupe of Engine Cooling:     Water       f. Number of Cylinders:     2       g. Cylinder Arrangement:     I       J. Durability Engine Model:     EMBSOLED21       Durability Engine Model:     EMBSOLED21       Durability Engine Model:							
Emission Standards Compliance:   DSC     If Corporate Averaging, list Designated Standard:   for     A. Combustion Cycle:   four-stroke     B. Engine Design:   B. Intake, Fuel and Emission Control Systems (ECS):     B. Combustion Cycle:   four-stroke     B. Oul/Fuel Ratio   Image: Stroke	1)	2)					
If Corporate Averaging, list Designated Standard:   for MC+NOX     Engine Design:   6. Intake, Fuel and Emission Control Systems (ECS):     a. Combustion Cycle:   four-stroke     b. Engine Type:   Reciprocating     c. Valvetrain:   Overhead     d. Total Number of Intake and Exhaust   Valves (Ports) per Cylinder:     v. Valvetrain:   Overhead     d. Total Number of Intake and Exhaust   valves     Valves (Ports) per Cylinder:   2     e. Type of Engine Cooling:   Water     f. Number of Cylinders:   2     g. Cylinder Arrangement:   1     Durability Engine Model:   EH0880LE021     Durability Engine Model:   EH0880LE021     Durability Engine Model:   EH0880LE021     Durability Engine Model:   EH0880LE021     Difficial Inertia Mass (kg):   0     Ret Vehicle or Engine:   Model:     Extra to Frager (Line)   0     Guidal Test Regults in (phipark ):   Certification Emissions in (gene-hr ):     fest Fuel Type:   icc1     Special Test Equipment (e.g. cooling fans. special cooplings, etc.) Yes/No:   If Yes, describe below:     n/a   Model							
Engine Design:   8. Intake, Fuel and Emission Control Systems (ECS):     a. Combustion Cycle:   four-stroke     a. Combustion Cycle:   four-stroke     b. Engine Type:   Reciprocating     c. Valvetriant:   Overhead     d. Total Number of Intake and Exhaust   Overhead     d. Total Number of Intake and Exhaust   Overhead     d. Total Number of Intake and Exhaust   Overhead     d. Total Number of Cylinders:   2     g. Cylinder Arrangement:   1     Datefordation Factors (DFs): a. New Durability Testingt   NO     Certification Test Engine Information: New Test:   CO     Durability Engine Model:   EH0860LE021     Durability Conclusions than 1:000): HC +Kx, 1:104   NOX     Certification Test Engine Information: New Test:   CO     Certification Test Engine Information: New Test:   CO     Guivalent Inertia Mass (kg):   0   Reted Power, hp: 44   @ 6000 rpm ;Test Date:   #20203     Equivalent Inertia Mass (kg):   0   Reted Power, hp: 44   @ 6000 rpm ;Test Date:   #20203     Equivalent Inertia Mass (kg):   0   Reted Power, hp: 44   @ 6000 rpm ;Test Date:   #20203     Equivalent		•		- * fo	- HC+NOx		
@ Oll/Fuel Ratio   hourshow     @ Oll/Fuel Ratio   hourshow     b. Engine Type:   Reciprocating     c. Valvetrain:   Overhead     d. Total Number of Intake and Exhaust Valves (Ports) per Cylinder:   2     e. Type of Engine Cooling:   Water     f. Number of Cylinders:   2     g. Cylinder Arrangement:   1     Datability Engine Model:   EH0680LE021     Durability Engine Information: New Test:   COr     Certification Test Engine Information: New Test:   COr     Certification Emsision Levels: HC:   MCF(NI)   O     Test Fuel Type:   IC01     Secial Test Equipment (e.g., cooling fans, 'special couplings, etc.') Yes/No:   If Yes, describe below:     n/a   Certification Emissions in (gbhp-hr ):   (i.e., with DFs applied)     n/a   Mox   CO   HC +NOx   CO  <		g, not besigne				ssion Control	Systems (ECS):
b. Engline Type:   Reciprocating     c. Valvetrain:   Overhead     d. Total Number of Intake and Exhaust Valves (Ports) per Cylinder:   2     e. Type of Engine Cooling:   Water     f. Number of Cylinders:   2     g. Cylinder Arrangement:   1     Datability Engine Model:   EH0680LE021     Durability Engine Model:   EH0680LE021     Certification Test Engine Information: New Test:   CO:     Carryover from Engine Family:   4POLX.683E41     Test Vehicle or Engine: Model #H0680LE021D:   0014     Rated Power, hp:   4@ 0600 rpm; Test Date:     Bypecial Test Equipment (e.g. cooling fam: %pecial couplings etc.): Yes/No:   If Yes, describe below:     n/a   Certification Emission Levels: HC:   HC+NOx:     Certification Emission Levels: HC:   HC+NOx:   Co:     n/a   Certification Emissions in ( grinp-inr ):   (i.e., with DFs applied)     n/a   Certification Emissions in ( grinp-inr ):   (i.e., with DFs applied)	a. Combustion Cycl	e:	four-stroke	a. After	treatment(s):		
c. Valvetrain:   Overhead     d. Total Number of Intake and Exhaust Valves (Ports) per Cylinder:   2     e. Type of Engine Cooling:   Water     f. Number of Cylinders:   2     g. Cylinder Arrangement:   1     Deterioration Factors (DFs): a. New Durability Testingt   NO     purability Engine Model:   EH0860LE021     Durability Engine Model:   EH0860LE021     Durability Engine Information:   New Test     Certification Test Engine Information:   NW Test     Certification Test Engine Information:   NW Test     Certification Ensistion Levels:   HC+N0x:     Difficial Test Results in (_ghnp.hr ):   Certification Emissions in (_gr/hphr ):     rest Fuel Type:   IC01     Special Test Equipment (e.g. coding fans. special complings.etc.): Yes/No:   If Yes, describe below:     n/a   n/a     Certification Emission Levels:   HC+N0x:   6.73     Col Addition Emissions in (_gr/hphr ):   (i.e., with DFs applied)     nd Type   Nox   CO   HC     Nox   CO   HC   Nox   CO     Special Test Regulation In (_gr/hphr ):   (i.e., with DFs applied)   10	@ Oil/Fuel	Ratio	*	b. Sens	sor(s):		×
d. Total Number of Intake and Exhaust Valves (Ports) per Cylinder:   2   e. Method of Aspiration.   Nat     e. Type of Engine Cooling:   g.   g.   G.   G.   Mathod of Aspiration.   Nat     f. Number of Cylinders:   2   g.   g. Others:   3     g. Cylinder Arrangement:   1   G.   G. Carryover from EF: 4POLX.683E41   4POLX.683E41     Durability Engine Model:   EH0680LE021   ID:   0000   co./Durability Test Distance (km/hr):   0     Exhaust DF Values (no less than 1.000):   HC+r/r/s 1.104   : NOX:   4POE:   COC   1.301   200     Certification Test Engine Information:   New Test:   COC   Carryover from Egine Family:   4POLX.683E41   200     Certification Test Engine Information:   New Test:   COC   Coc:   1.301   200     Equivalent Inertia Mass (kg):   0   RLF(NI):   0   Trans:   AV   MPG:   4POLX.683E41     Test Vehicle or Engine:   Model:   H0680LE02 (D):   0014   Rated Power, hp:   44   @ 6000 rpm :Test Date:   6/29/03     Equivalent Inertia Mass (kg):   0   RLF(NI):   0   T	<b>b</b> . Engine Type:		Reciprocating		•		MFI
Valves (Ports) per Cylinder:   2     e. Type of Engine Cooling:   Water     f. Number of Cylinders:   2     g. Cylinder Arrangement:   1     Deterioration Factors (DFs): a. New Durability Testing:   NO     Durability Engine Model:   EH0680LE021     Exhaust DF Values (no less than 1.000): HC:::fits 1.104   NOx:     Attest   CO:     Certification Test Engine Information: New Test   CO:     Catry over from Engine: Model   H0680LE02 ID:     0014   Rated Power, hp:   44     @ 6000 rpm; Test Date:   8/29/03     Equivalent Inertia Mass (kg):   0   REF(Nt):     0   Rated Power, hp:   44     @ 6000 rpm; Test Date:   8/29/03     Equivalent Inertia Mass (kg):   0   REF(Nt):     0   Revision fans, special coupling, etc.): Yes/No:   If Yes, describe below:     n/a   (i.e., with DFs applied)   (i.e., with DFs applied)     nd Type   Offigial Test Results in ( eytherwhr ):   Certification Emissions in ( grider-hr ):     (i.e., with DFs applied)   (i.e., with DFs applied)   10     nd Type   HC::NOX   CO   HC	<b>c</b> . Valvetrain:		Overhead	d. Exha	aust Gas Reci	rculation:	*
e. Type of Engine Cooling:   Water     f. Number of Cylinders:   2     g. Cylinder Arrangement:   1     Deterioration Factors (DFs): a. New Durability Testing:   NO     Durability Engine Model:   EH0680LE021     Durability Engine Model:   EH0680LE021     Durability Engine Model:   EH0680LE021     Dirability Engine Information:   NO:     Certification Test Engine Information:   New Test:     Certification Test Engine:   Model     Model:   Deterior     Special Test Equipment (e.g., cooling fans, special couplings, etc.): Yes/No:   If Yes, describe below:     n/a   (i.e., with DFs applied)     Certification Emission Levels; HC:   HC+Nox:     6:1   -2:1     136:66   -3:75     6:32   -3:3     10   300     emarks:   633cc engine is considered "worst case" due to BSFC     reat Model:   -2:				e. Meth	od of Aspirati	on:	NAT
f. Number of Cylinders:   2     g. Cylinder Arrangement:   1     Deterioration Factors (DFs): a. New Durability Testing:   NO   : Carryover from EF: 4POLX.683E41 ;     Durability Engine Model:   EH0680LE021 ID: 0020 c. Durability Test Distance (km/hr): 0   200     Exhaust DF Values (no less than 1.000): HC+#6x 1.104 · NOx: 4+04 · CO   1.301 · 200     Certification Test Engine Information: New Test:   CO : Carryover from Engine Family: 4POLX.683E41     Test Vehicle or Engine: Model H0680LE02 ID: 0014 Rated Power, hp: 44 @ 6000 rpm ;Test Date: 8/29/03   Equivalent Inertia Mass (kg): 0 RLF(Nt): 0 Trans: AV MPG:			51. 2			on:	•
g. Cylinder Arrangement:   1     Deterioration Factors (DFs): a. New Durability Testing:   NO   : Carryover from EF; 4POLX.683E41     Durability Engine Model:   EH0680LE021   ID:   0020   c. Durability Test Distance (km/hr):   0     Exhaust DF Values (no less than 1.000):   HC:+frx, 1.104   : NOx:   -4-494   : CO:   1.301   200     Certification Test Engine Information:   New Test:   GO : Carryover from Engine Family:   4POLX.683E41     Test Vehicle or Engine:   Model :=H0680LE02 ID:   0014   Rated Power, hp:   44   @ 6000 rpm ;Test Date:   8/29/03     Equivalent Inertia Mass (kg):   0   RLF(Nt):   0   Trains:   AV   MPG:		-	Water	g. Othe	ers:		*
Deterioration Factors (DFs): a. New Durability Testing:   NO   ; Carryover from EF: 4POLX.683E41     Durability Engine Model:   EH0680LE021   ID: 0020   ; o Durability Test Distance (km/hr): 0     Exhaust DF Values (no less than 1.000): HC + Mx 1.104   ; NOx: -1+64   ; CO   1.301   200     Certification Test Engine Information: New Test:   GO: Carryover from Engine Family: 4POLX.683E41   200     Test Vehicle or Engine: Model #0680LE02 ID: 0014   Rated Power, hp: 44   @ 6000 rpm ;Test Date: 8/29/03     Equivalent Inertia Mass (kg): 0   RLF(Nt): 0   Trans: AV   MPG;	_		2				S
Durability Engine Model:   EH0680LE021   ID:   0020   c. Durability Test Distance (km/hr):   0     Exhaust DF Values (no less than 1.000):   HC:   HC: <td< td=""><td>g. Cylinder Arrange</td><td>ment:</td><td></td><td></td><td></td><td></td><td></td></td<>	g. Cylinder Arrange	ment:					
n/a     Certification Emission Levels: HC:     HC+NOX: 6.73 CO: 177.76     Certification Emissions in (g/bhp-hr):     Certification Emissions in (g/bhp-hr):     (i.e., with DFs applied)     MC+NOX: CO     HC+NOX: CO     6.1     HC+NOX: CO     6.73     177.76     Image: Colspan="2">Image: Colspan="2"     Image: Colspan="2" <td< th=""><th>Durability Engine Mod Exhaust DF Values (n Certification Tes</th><th>del: EH0680Li io less than 1.000 <b>t Engine Info</b>r</th><th>E021 ID: 0 ): HC:<u>+Ng</u> 1.104 rmation: New Test</th><th>; NOx:; c</th><th>. Durability Te <del>t0≄</del>; CO: over from Eng</th><th>st Distance (km <u>1.301</u>. gine Family:</th><th>200 4POLX.683E41</th></td<>	Durability Engine Mod Exhaust DF Values (n Certification Tes	del: EH0680Li io less than 1.000 <b>t Engine Info</b> r	E021 ID: 0 ): HC: <u>+Ng</u> 1.104 rmation: New Test	; NOx:; c	. Durability Te <del>t0≄</del> ; CO: over from Eng	st Distance (km <u>1.301</u> . gine Family:	200 4POLX.683E41
Certification Emission Levels: HC:   HC+NOx:   6.73   CO:   177.76     Test No.   Official Test Results in (g/bhp-hr):   Certification Emissions in (g/bhp-hr):     Co:   177.76     If colspan="2">CO:   177.76     If colspan="2">Co:   177.76     If colspan="2">Co:   177.76     6.1   6.73   177.76     It colspan="2">10   300   It colspan="2">It colspan="2">It colspan="2">It colspan="2">It colspan="2">It colspan="2">It colspan="2">It colspan="2"It	Durability Engine Mod Exhaust DF Values (n <b>Certification Tes</b> Test Vehicle or Engin Equivalent Inertia Ma	del:EH0680L1 to less than 1.000 <b>t Engine Infor</b> e: Model <u>H068</u> ass (kg):0	E021 ID: 0 ): HC: <u>+Ng,</u> 1.104 rmation: New Test 00LE02 ID: 0014	0020 ; <b>c</b> ; NOx: <del>1</del> :: _ <u>C/O :</u> Carry Rated Pow	. Durability Te <del>104</del> CO: over from Eng er, hp:440	st Distance (km <u>1.301</u> gine Family: <u></u> @ <sup>6000</sup> rpm ;Te	200 4POLX.683E41 st Date: <u>8/29/03</u>
Test No. Ind Type   Official Test Results in (g/bhp-hr): (raw data) (i.e., no DFs)   Certification Emissions in (g/bhp-hr): (i.e., with DFs applied)     HC+N0x   NOx   CO   HC   NOx   HC+N0x   CO     6.1   6.1   6.73   177.76     tandard:   *   10   300     emarks:   683cc engine is considered "worst case" due to BSFC     Ie Date:   3/2/04   Revision Date(s):     RB USE ONLY   Date:   4/1/04   Reviewed by:   Mut	Durability Engine Mod Exhaust DF Values (m Certification Tes Test Vehicle or Engin Equivalent Inertia Ma Test Fuel Type:	del:EH0680L1 to less than 1.000 <b>t Engine Infor</b> e: Model <u>:H068</u> ass (kg):0 IC01	E021 ID: 0 ): HC: <u>+N(x</u> 1.104 rmation: New Test 00LE02 ID: 0014 RLF(Nt):	0020 ; c ; NOx: :_ <u>C/O :</u> Carry Rated Pow 0 Trans	. Durability Te <del>104</del> ; CO: over from Eng er, hp:44 s:AV	st Distance (km <u>1.301</u> . gine Family: <u></u> <u>@ <sup>6000</sup> rpm</u> ;Tes MPG:	200 4POLX.683E41 st Date: <u>8/29/03</u>
Itest No.   (raw data) (i.e., no DFs)   (i.e., with DFs applied)     HC +Nox   NOx   CO   HC   NOx   HC+NOx   CO     6.1   GT   136.66   GT   GT   6.73   177.76     tandard:   GT   GT   136.66   GT   GT   177.76     tandard:   GT   GT   GT   10   300     emarks:   GT   GT   GT   GT   GT     tandard:   GT   GT   GT   GT   GT     tandard:   GT   GT   GT   GT   GT     tandard:   GT   GT   GT   GT   GT   GT     tandard:   GT   GT   GT   GT   GT   GT   GT     tandard:   GT   GT<	Durability Engine Mod Exhaust DF Values (n <b>Certification Tes</b> Test Vehicle or Engin Equivalent Inertia Ma Test Fuel Type:	del:EH0680L1 to less than 1.000 <b>t Engine Infor</b> e: Model <u>:H068</u> ass (kg):0 IC01	E021 ID: 0 ): HC: <u>+N(x</u> 1.104 rmation: New Test 00LE02 ID: 0014 RLF(Nt):	0020 ; c ; NOx: Rated Pow Rated Pow Trans trans	. Durability Te <del>104</del> ; CO: over from Eng er, hp:44 s:AV	st Distance (km <u>1.301</u> . gine Family: <u></u> <u>@ <sup>6000</sup> rpm</u> ;Tes MPG:	200 4POLX.683E41 st Date: <u>8/29/03</u>
HC +Nox   CO   HC   NOX   HC +NOx   CO     6.1   6.1   6.1   6.73   177.76     candard:   *   10   300     candard:   *   10   300     emarks:   683cc engine is considered "worst case" due to BSFC     re Date:   3/2/04   Revision Date(s):     RB USE ONLY rocessed by:   Date:   4/1/04   Reviewed by:   Multiple     Date:   4/1/04   Reviewed by:   Multiple   Date:   4-1-C/4	Durability Engine Mod Exhaust DF Values (n Certification Tes Test Vehicle or Engin Equivalent Inertia Ma Test Fuel Type: Special Test Equipme	del:EH0680Li to less than 1.000 <b>t Engine Infor</b> e: Model <u>H068</u> ass (kg):0 IC01 ent (e.g., cooling	E021 ID: 0 ): HC: <u>-N(x</u> 1.104 mation: New Test 00LE02 ID: 0014 	0020 ; c ; NOx:; Rated Pow Rated Pow Trans trans trans	. Durability Te <del>104</del> : CO: over from Eng er, hp: <u>44</u> ( s: <u>AV</u>	st Distance (km <u>1.301</u> gine Family: <u></u> <u>@ 6000 rpm</u> ;Te MPG: If Yes, de	200 4POLX.683E41 st Date: <u>8/29/03</u>
iandard: iandar	Durability Engine Mod Exhaust DF Values (n Certification Tes Test Vehicle or Engin Equivalent Inertia Ma Test Fuel Type: Special Test Equipme Certification Emission Test No. Official	del: EH0680Li to less than 1.000 t Engine Infor e: Model H068 ass (kg): 0 IC01 ent (e.g., cooling on Levels: HC Test Results i raw data) (i.e.,	E021 ID: 0 : HC: <u>+N(x</u> 1.104 rmation: New Test :0LE02 ID: 0014 RLF(Nt): fans, special couplings, :HC+N in ( g/bhp-hr ):	0020 ; c ; NOx: Rated Pow 0 Trans etc.): Yes/No: n/a Ox:6.73	. Durability Te +04- : CO: over from Eng er, hp:44 (c) :AV CO:777.76 ertification Err	st Distance (km <u>1.301</u> . gine Family: <u>0</u> 6000 rpm ;Te <u>MPG:</u> <u>.</u> If Yes, de <u>.</u>	200 4POLX.683E41 st Date: <u>8/29/03</u> 
iandard:   *   10   300     emarks:   683cc engine is considered "worst case" due to BSFC     ie Date:   3/2/04   Revision Date(s):     RB USE ONLY   Date:   4/1/04   Reviewed by:   Mut	Durability Engine Mod Exhaust DF Values (n Certification Tes Test Vehicle or Engin Equivalent Inertia Ma Test Fuel Type: Special Test Equipme Certification Emission Test No nd Type HC +/	del: EH0680Li to less than 1.000 <b>t Engine Infor</b> e: Model H068 ass (kg): 0 IC01 ent (e.g., cooling on Levels: HC Test Results i raw data) (i.e., NOX	E021 ID: 0 : HC: <u>+N(y,</u> 1.104 rmation: New Test :0LE02 [D: 0014 	0020 ; c ; NOx: Rated Pow 0 Trans etc.): Yes/No: n/a Ox:6.73	. Durability Te t04: CO: over from Eng er, hp:44 er, hp:44     CO:  CO:  CO:   CO:   NOx	st Distance (km <u>1.301</u> gine Family: <u>0 6000 rpm</u> ;Ter <u>MPG:</u> <u>.</u>	200 4POLX.683E41 st Date: 8/29/03 
tandard: 10 300 emarks: 683cc engine is considered "worst case" due to BSFC ne Date: 3/2/04 Revision Date(s): RB USE ONLY rocessed by: Date: 4/1/04 Reviewed by: Date: 4-1-04	Durability Engine Mod Exhaust DF Values (n Certification Tes Test Vehicle or Engin Equivalent Inertia Ma Test Fuel Type: Special Test Equipme Certification Emission Test No Official Test No Official Mot Type 6.1	del: EH0680Li to less than 1.000 <b>t Engine Infor</b> e: Model H068 ass (kg): 0 IC01 ent (e.g., cooling on Levels: HC Test Results i raw data) (i.e., NOX	E021 ID: 0 : HC: <u>+N(y,</u> 1.104 rmation: New Test :0LE02 [D: 0014 	0020 ; c ; NOX: Rated Pow 0 Trans etc.): Yes/No: n/a OX: Cu HC	. Durability Te t04: CO: over from Eng er, hp:44 er, hp:44     CO:  CO:  CO:   CO:   NOx	st Distance (km <u>1.301</u> gine Family: <u>0 6000 rpm</u> ;Ter <u>MPG:</u> . If Yes, de	200 4POLX.683E41 st Date: 8/29/03 
emarks:   683cc engine is considered "worst case" due to BSFC     ue Date:   3/2/04   Revision Date(s):     RB USE ONLY   Revision Date:   4/1/04     rocessed by:   Jtun / adv.   Date:   4-1-C.4	Durability Engine Mod Exhaust DF Values (n Certification Tes Test Vehicle or Engin Equivalent Inertia Ma Test Fuel Type: Special Test Equipme Certification Emission Test No. Official Test No. (n HC +) 6.1	del: EH0680Li to less than 1.000 <b>t Engine Infor</b> e: Model H068 ass (kg): 0 IC01 ent (e.g., cooling on Levels: HC Test Results i raw data) (i.e., NOX	E021 ID: 0 : HC: <u>+N(y,</u> 1.104 rmation: New Test :0LE02 [D: 0014 	0020 ; c ; NOX: Rated Pow 0 Trans etc.): Yes/No: n/a OX: Cu HC	. Durability Te t04: CO: over from Eng er, hp:44 er, hp:44     CO:  CO:  CO:   CO:   NOx	st Distance (km <u>1.301</u> gine Family: <u>0 6000 rpm</u> ;Ter <u>MPG:</u> . If Yes, de	200 4POLX.683E41 st Date: 8/29/03 
RB USE ONLY rocessed by: <u></u> Date: <u>4/1/04</u> Reviewed by: <u></u> Date: <u>4-1-C'4</u> .	Durability Engine Mod Exhaust DF Values (n Certification Tes Test Vehicle or Engin Equivalent Inertia Ma Test Fuel Type: Special Test Equipme Certification Emission Test No Ind Type HC +) 6.1	del: EH0680Li to less than 1.000 <b>t Engine Infor</b> e: Model H068 ass (kg): 0 IC01 ent (e.g., cooling on Levels: HC Test Results i raw data) (i.e., NOX	E021 ID: 0 : HC: <u>+N(y,</u> 1.104 rmation: New Test :0LE02 [D: 0014 	0020 ; c ; NOX: Rated Pow 0 Trans etc.): Yes/No: n/a OX: Cu HC	. Durability Te t04: CO: over from Eng er, hp:44 er, hp:44     CO:  CO:  CO:   CO:   NOx	st Distance (km <u>1.301</u> gine Family: <u>D</u> 6000 rpm ;Ter <u>MPG:</u> If Yes, de h DFs applied) HC+NOx 6.73	200 4POLX.683E41 st Date: 8/29/03 scribe below: hp-hr ): CO 177.76
RB USE ONLY rocessed by: <u>Stur lada</u> Date: <u>4/1/04</u> Reviewed by: <u>1/1/1/1/1</u> Date: <u>4-1-C:4</u>	Durability Engine Mod Exhaust DF Values (n Certification Tes Test Vehicle or Engin Equivalent Inertia Ma Test Fuel Type: Special Test Equipme Certification Emission Test No Ind Type Official Certification Emission (n HC+) 6.1	del: EH0680Li to less than 1.000 <b>t Engine Infor</b> e: Model H068 ass (kg): 0 IC01 ent (e.g., cooling on Levels: HC Test Results i raw data) (i.e., NOX	E021 ID: 0 : HC:+/i/y 1.104 rmation: New Test :0LE02 ID: 6014 RLF(Nt): fans, special couplings, : HC+N in (g/bhp-hr): no DFs) CO 136.66	0020 ; c ; NOx: ; NOx: Rated Pow 0 Trans etc.): Yes/No: n/a Ox:6.73 Cu HC 6.73	. Durability Te +04 : CO: over from Eng er, hp: 44 ( : AV CO: 177.76 ertification Em (i.e., with NOx 0.76	st Distance (km <u>1.301</u> gine Family: <u>D</u> 6000 rpm ;Tea <u>MPG:</u> If Yes, dea issions in (_g/b h DFs applied) HC+NOx 6.73 10	200 4POLX.683E41 st Date: 8/29/03 scribe below: hp-hr ): CO 177.76
rocessed by: Date: 4/1/04 Reviewed by: UNCMY Date: 4-1-C	Durability Engine Mod Exhaust DF Values (n Certification Tes Test Vehicle or Engin Equivalent Inertia Ma Test Fuel Type: Special Test Equipme Certification Emission Test No Official Test No find Type 6.1	del: EH0680Li to less than 1.000 <b>t Engine Infor</b> e: Model H068 ass (kg): 0 IC01 ent (e.g., cooling on Levels: HC Test Results i raw data) (i.e., NOX	E021 ID: 0 : HC:+/i/y 1.104 rmation: New Test :0LE02 ID: 6014 RLF(Nt): fans, special couplings, : HC+N in (g/bhp-hr): no DFs) CO 136.66	0020 ; c ; NOx: ; NOx: Rated Pow 0 Trans etc.): Yes/No: n/a Ox:6.73 Cu HC 6.73	. Durability Te +04 : CO: over from Eng er, hp: 44 ( : AV CO: 177.76 ertification Em (i.e., with NOX 0.76	st Distance (km <u>1.301</u> gine Family: <u>D</u> 6000 rpm ;Tea <u>MPG:</u> If Yes, dea issions in (_g/b h DFs applied) HC+NOx 6.73 10	200 4POLX.683E41 st Date: 8/29/03 scribe below: hp-hr ): CO 177.76
Totessed by Date Date Neviewed by Date	Durability Engine Mod Exhaust DF Values (n Certification Tes Test Vehicle or Engin Equivalent Inertia Ma Test Fuel Type: Special Test Equipme Certification Emission Test No. and Type Official Test No. and Type 6.1	del: EH0680LI to less than 1.000 t Engine Infor e: Model H068 ass (kg): 0 iC01 ent (e.g., cooling on Levels: HC Test Results i raw data) (i.e., Nox -err	E021 ID: 0 : HC:+//0x 1.104 rmation: New Test :0LE02 ID: 0014 RLF(Nt): fans, special couplings, : HC+N in (g/bhp-hr): no DFs) CO 136.66 683cc engine is co	0020 ; c ; NOx: ; NOx: Rated Pow 0 Trans etc.): Yes/No: n/a Ox:6.73 Cu HC 6.73	. Durability Te +04 : CO: over from Eng er, hp: 44 ( : AV CO: 177.76 ertification Em (i.e., with NOX 0.76	st Distance (km <u>1.301</u> gine Family: <u>D</u> 6000 rpm ;Tea <u>MPG:</u> If Yes, dea issions in (_g/b h DFs applied) HC+NOx 6.73 10	200 4POLX.683E41 st Date: 8/29/03 scribe below: hp-hr ): CO 177.76
שמוטה שטיווזהערץ טוופסרוטר טווירעשט וזוטלטיעשופא דע שטווגעמוטה איניירא שאושט שאיניים טוווזיטעט שטווווישנטטר שער	Durability Engine Mod Exhaust DF Values (n Certification Tes Test Vehicle or Engin Equivalent Inertia Ma Test Fuel Type: Special Test Equipme Certification Emissi Test No. and Type Official Certification Emissi Certification Emissi Official (n Certification Emissi Certification Emissi Certificati	del: EH0680LI to less than 1.000 t Engine Infor e: Model H068 ass (kg): 0 iC01 ent (e.g., cooling on Levels: HC Test Results i raw data) (i.e., Nox ert exision Date	E021 ID: 0 : HC:+//0x 1.104 rmation: New Test :0LE02 ID: 0014 RLF(Nt): fans, special couplings, : HC+N in (g/bhp-hr): no DFs) CO 136.66 683cc engine is co e(s):	0020   ; c     ; NOx:   -++    ; NOx:   -++    ; C/O   ; Carry    Rated Pow   0     0   Trans     etc.):   Yes/No:     n/a   0     Ox:   6.73     Ct   HC     -£.73*   -     onsidered "worst	Durability Te	st Distance (km <u>1.301</u> gine Family: <u>D</u> 6000 rpm ;Tei <u>D</u> 6000 rp	200 4POLX.683E41 st Date: 8/29/03 scribe below: hp-hr ): CO 177.76 300
	Durability Engine Mod Exhaust DF Values (n Certification Tes Test Vehicle or Engin Equivalent Inertia Ma Test Fuel Type: Special Test Equipme Certification Emission Test No. and Type Official Test No. and Type Official Certification Emission (n HC+) 6.1 Certification Emarks: Certification Emission (n HC+) Certification Emission Certification Emission (n HC+) Certification Emission Certification Emission (n HC+) Certification Emission Certification Certi	del: EH0680L1 to less than 1.000 t Engine Infor e: Model H068 ass (kg): 0 IC01 ent (e.g., cooling on Levels: HC Test Results i raw data) (i.e., NOX -8-1 Revision Date	E021 ID: 0 : HC:+/i/0x 1.104 rmation: New Test : 00LE02 ID: 0014 RLF(Nt): fans, special couplings, : HC+N in (g/bhp-hr): no DFs) CO 136.66 683cc engine is co e(s): Date: <u>4 / 1/04</u>	0020 ; c ; NOx: ; NOx: Rated Pow 0 Trans etc.): Yes/No: n/a Ox:6.73 Co HC 6.73 Co HC 6.73 Co HC	Durability Te	st Distance (km <u>1.301</u> gine Family: <u>D</u> 6000 rpm ;Tei <u>D</u> 6000 rp	200 4POLX.683E41 st Date: 8/29/03 scribe below: hp-hr ): CO 177.76 300