CUMMINS INC.

EXECUTIVE ORDER U-R-002-0439 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

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

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)						
2008	8CEXL0661AAH	11.0	Diesel	8000						
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION							
Direct Dies Engine	sel Injection, Turbocharge Control Module, Exhaust	er, Charge Air Cooler, Gas Recirculation	Generator S	Set						

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION			E	EXHAUST (g/kw-l		OPACITY (%)					
	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK		
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	N/A	N/A	N/A		
		CERT			3.3	0.6	0.08			-		

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines 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. Engines 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 December 2007.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Form

Cummins Inc. Manufacturer:

Nonroad Cl Engine category:

8CEXL0661AAH EPA Engine Family:

Mfr Family Name: H353

Running Change Process Code:

N-R-002-6439

	3	_			≥			-			,													
8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	DDI,ECM,EGR,		DDI,ECM,EGR,	DDI,ECM,EGR,	DDI,ECM,EGR,			NATIONAL CONTRACTOR OF THE PROPERTY OF THE PRO			A P and M of M (1911) and the second second and M (1911) and A members, in a second (1911) and the second s	· · · · · · · · · · · · · · · · · · ·		•									STATE OF THE PARTY	THE REPORT OF THE PARTY AND ADDRESS OF THE PAR
a: orque	لكر				>																			
uel Rate @peak t	N/A	Ϋ́	N/A	NA	N/A													***************************************						
8.F (lbs/hr)						Tradition bearings and the												-						
mm/stroke@peak torque	N/A	NA	N/A	N/A	N/A		entrolina deservação como a transferior de como de la c												And the second control of the second control					
mm/st																					4.0	A		
6.Torque @ RPM (SEA Gross)	N/A	N/A	N/A	N/A	N/A					The state of the s						annonino de construire de la construire		and the state of t		***************************************	**************************************			
6.Torqu (SEA		_		_		, and the second																		
(lbs/hr) @ peak HP (for diesels only)	191.5	164.4	154.9	200	200		interest de la constante de la			delication (Hermanian management)						The state of the second		The second section is the second seco						
																		late of the special feeders and it famous as policy of						
mm/stroke @ peak HP (for diesel only)	315	271	255	329.5	329.5			THE REAL PROPERTY AND ADDRESS OF THE PROPERTY				•				business special color property and state of the special state of the sp				no construction de la constructi			The second secon	
3.BHP@RPM (SAE Gross)	530@1800	470@1800	443@1800	550@1800	534@1800			AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED I		and the second s			THE RESERVE OF THE PARTY OF THE				THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM	ny shiri manta a caran a cara ny fisi i mman manana					MATERIAL PROPERTY OF THE PROPE	The contract of the contract o
2.Engine Model	QSM11-G	QSM11-G	QSM11-G	QSM11-G5	QSM11-G5						A DESCRIPTION OF THE PROPERTY			***************************************		***************************************		CORPORATE OF A LABORATORY CONTRACTOR CONTRAC					AND I AND THE RESIDENCE CONTRACTOR OF CHARLES AND A CONTRACTOR OF THE AND ADDRESS.	
1.Engine Code	1778:FR20144	1778:FR20138	1778:FR20147	3296:FR20222	3296:FR20192				***************************************		THE CASE OF THE PROPERTY OF TH			пининальной выправной приняти поментинального приняти предоставления приняти п	THE RESERVE THE PROPERTY OF TH			THE REPORT OF THE PROPERTY OF			TOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTOTO	***************************************	And the second s	ALTERNATION OF LOUISE VALUE CONTRACTOR AND