(Page 1 of 2)

State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-17-1

Relating to Certification of New Heavy-Duty Off-Road Equipment Engines

GENERAC CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43000.5, 43013 and 43018 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-45-9;

IT IS ORDERED AND RESOLVED: That the following Generac Corporation 1996 model-year engine, with rated power between 175 and 750 horsepower, and exhaust emission control systems are certified as described below for use in heavy-duty off-road equipment:

Typical Equipment Usage: Generator

Fuel Type: Diesel

Engine Family

Liters (Cubic Inches)

TGN13.R6DARA

Liters (Cubic Inches)

Exhaust Emission Control
Systems and Special Features

Turbocharger

Engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The total hydrocarbons (THC), carbon monoxide (CO), nitrogen oxides (NOx), and particulate matters (PM) certification exhaust emission standards, in grams per brake horsepower-hour (g/bhp-hr), and the opacity of smoke emission standards, in percent (%), during acceleration (Accel), lugging (Lug), and peak (Peak) modes, for this engine family are (Title 13, California Code of Regulations, Section 2423):

Exhaust Emissions (g/bhp-hr)			Smoke Opacity (%)			
THC	<u>co</u>	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	Lug	<u>Peak</u>
1.0	8.5	6.9	0.4	20	15	50

The THC, CO, NOx and PM exhaust emission certification values, in g/bhp-hr, and the opacity of smoke emission certification values, in percent (%), for this engine family are:

	<u>Exha</u>	ust Emiss	ion (g/bh	ip-hr)	Smoke	Smoke Opacity (%)		
Engine Family	<u>THC</u>	<u>co</u>	<u>NOx</u>	<u>PM</u>	<u>Accel</u>	Lug	<u>Peak</u>	
TGN13.R6DARA	0.3	0.8	5.4	0.1	· -	6	-	

BE IT FURTHER RESOLVED: That the listed engine models comply with the "Exhaust Emission Standards and Test Procedures--Heavy-Duty Off-Road Diesel Cycle Engines" (Title 13, California Code of Regulations, Section 2423) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed engine models also comply with the "Emission Control Labels--1996 and Later Heavy-Duty Off-Road Diesel Cycle Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2425 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this 15 day of May 1996.

R. B. Summerfield

Assistant Division Chief Mobile Source Division

E.O. # U-R-17-1

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET LAWN/GARDEN/UTILITY ENGINES

Page 1 of 2

Ignition: Com	13.267/809 Engine Fam: C per Cylinder: Power: 280 pression *	D.6 Liters/C LA 49S 50S Two D.0 HP (2 Compression	Subic Inches Strokes p (08.9 KW) @ on with Glow P	Engine t Procedure er Combusti	Config: <u>I6</u> s: ARB <u> E</u> on Cycle: <u>E</u> RPM Spark <u> </u>	S/OHV SPA * Sour			
<pre>Fuel Type(s):</pre>	Dedicated _	Flex-Fuel _	Dual-Fuel	Diesel	* M100	M85			
		LPG C		* * * * *					
Diesel Cert.	Fuel: 40 CFR	86.113-94 *	Other (speci	fy)					
Primary Servi	ce Equipment:	Generators							
Exhaust ECS (e.g. OC, TWC, PTOX, IFI, TC, CAC): EM, TC (Use abbreviations per SAE J1930 JUN93)									
Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @ Rated HP, mm3/str (lbs/hr)		ECM/PCM Part No.	EGR Valve Part No.	Catalytic Converter Part No.			
13.3 Т	280 @ 1800	166	Fuel pump assembly: 476-59089 Injector: 489-59089	N/A	n/A	N/A			

Issue Date:	Revision No.	1	2	3	4	5	6
02/15/96	Revision Date						