



Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in diesel or incomplete medium-duty vehicles with a manufacturer's GVWR from 8501 to 14000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	EMISSION STD CATEGORY ²	FUEL TYPE ¹	STANDARDS & TEST PROCEDURE	ENGINE SIZES (L)	ECS & SPECIAL FEATURES ³	OBD COMPLIANCE	
			Diesel					Diesel
2005	5GEPH06.5527	ULEV	Diesel	Diesel	6.5	OC, EGR, IDI, TC	OBD(F)	
ENGINE MODELS / CODES (rated power, in hp)							ENGINE (L)	OBD COMPLIANCE
L65 / 1 (205)							6.5	OBD(F)
*							*	*
*							*	*
*							*	*

*=not applicable; GVWR=gross vehicle weight rating; 13 CCR xyz=Title 13, California Code of Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulations, Section 86.abc; L=liter; hp=horsepower; kw=kilowatt;
¹ CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a BF=bi fuel; DF=dual fuel; FF=flexible fuel;
² SULEV / ULEV / LEV=super ultra / ultra / low emission vehicle;
³ ECS=emission control system; TWC/OC=three-way/oxidizing catalyst; WU (prefix) =warm-up catalyst; DPF=diesel particulate filter; HO2S/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throttle body fuel injection; SF/MI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; IDI/DDI=indirect/direct diesel injection; TC/SC=turbo/super charger; CAC=charge air cooler; EGR=exhaust gas recirculation; PAIR/AIR=pulsed/secondary air injection; SPL=smoke puff limiter; OBD(F) / (P) / (S)=full / partial / partial with a fine / on-board diagnostic; ECM/PCM=engine/powertrain control module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series;

Following are: 1) the FTP exhaust emission standards or family emission limit(s) as applicable under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, in g/bhp-hr, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For dual- and flexible-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel.)⁴

	NMHC		NOx		NMHC+NOx		CO		PM		HCHO	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.5	*	*	*	2.5	*	14.4	*	0.10	*	0.050	*
FEL	*	*	*	*	*	*	*	*	*	*	*	*
CERT	0.2	*	*	*	2.4	*	1.5	*	0.09	*	0.036	*
NTE	*	*	*	*	*	*	*	*	*	*	*	*

⁴ g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle; NTE=Not-to-Exceed emission limit; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde;

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: The listed engine models have been certified to the optional emission standards and test procedures in 13 CCR 1956.8 applicable to diesel or incomplete medium-duty vehicles with a GVWR from 8501 to 14000 pounds and, therefore, shall be subject to 13 CCR 2139(c) (in-use testing of engines certified for use in diesel or incomplete medium-duty vehicles with a 8501-14000 pound GVWR).

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels), 13 CCR 1968.2 (on-board diagnostic, full or partial compliance), and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations. The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this 26TH day of January 2005.

Allen Lyons, Chief
Mobile Source Operations Division

Test Information Form

A-341-0015

Manufacturer: **General Engine Products LLC**

Engine category: **On-highway HDDE**

Cert contact: **Michael Kunz**

1. EPA Standard Engine Family: 5GEPH06.5527	9. Torque (ft-lb) @ 440	@	
2. Process Code: New Submission	Engine RPM: 1800		
3. Test Data Set: 1	10. WAIVERS:	CO	PM
4. Engine Code: 1		No	NA
5. Engine Model: L65		Smoke	Idle Co
6. Displacement(s) (cid Or Liters): 6.5 Liters (395 CID)	11. Cold Start? No	NA	NA
7. Engine I.d. Number: CERT #1	12. Certification Fuel: Diesel (Part 89, Sub D, Appdx A, Table 4)		
8. Rated HP @ 205	13. Special Test Device No		
Rated RPM: 3200	14. Test Procedure: On-Hwy Diesel		

15. Official Test Results

Date: **9/8/2003**

HC/OMHCE
 NMHC/OMNMHCE
 HC + NOx
 CARBON MONOXIDE
 OXIDE OF NITROGEN
 PARTICULATE
 FORMALDEHYDE
 ACCELERATION (%opacity)
 LUGGING (Gen) (%opacity)
 PEAK (%opacity)
 IDLE CO %
 CO2

	Test 1	Test 2	Test 3
HC/OMHCE	0.213		
NMHC/OMNMHCE	0.183		
HC + NOx			
CARBON MONOXIDE	1.269		
OXIDE OF NITROGEN	2.253		
PARTICULATE	0.088		
FORMALDEHYDE	0.027		
ACCELERATION (%opacity)	2.53		
LUGGING (Gen) (%opacity)	1.87		
PEAK (%opacity)	5.27		
IDLE CO %			
CO2			

16. Deterioration Factors

1.047
1.000

1.176
1.000
1.064
1.351
0.000
0.000
0.000

17. Certification Levels (Rounded Test Results)

Units-- --Units

STDs
g/BHP-hr g/kW-hr

FELs

HC/OMHCE
 NMHC/OMNMHCE
 NMHC + NOx
 CARBON MONOXIDE
 OXIDE OF NITROGEN
 PARTICULATE
 FORMALDEHYDE
 ACCELERATION (%opacity)
 LUGGING (Gen) (%opacity)
 PEAK (%opacity)
 IDLE CO%

NMHC/OMNMHCE	0.183			--
NMHC + NOx	2.4			2.5
CARBON MONOXIDE	1.5			14.4
OXIDE OF NITROGEN	2.253			--
PARTICULATE	0.09			0.10
FORMALDEHYDE	0.036			0.050
ACCELERATION (%opacity)				--
LUGGING (Gen) (%opacity)				--
PEAK (%opacity)				--
IDLE CO%				--

N/A

N/A

N/A

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Engine Model Summary Form

Manufacturer: **General Engine Products LLC**
 Engine category: **On-highway HDDE**
 EPA Engine Family: **5GEPH06.5527**
 Mfr Family Name: **N/A**
 Process Code: **New Submission**

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
1	L65	205 @ 3200* *SAE NET	68	94.5	440 @ 1800* *SAE NET	78.5	62.7	OC,TC,ECM,EGR,DI

A-341-2015

A-341-0015

Part Number Summary Form

Manufacturer: **General Engine Products LLC**
 Engine category: **On-highway HDDE**
 EPA Engine Family: **5GEPH06.5527**
 Mfr Family Name: **N/A**
 Process Code: **New Submission**

Engine Code	Engine Model	Injection Pump	Injector	Turbo Charge	Electronic Control Module	After Treatment Device (Specify)	Smoke Puff Limiter	Sensor Assemblies	
								Description	Part Number
1	L65	18000423	5743223	18000464	18001020	CATALYST 6008247	N/A	MAP	18000410
								Air Int Temp	5744430
								Crnk Shft Pos	5744911
								Eng cool temp	5744030
								MAF Meter	6015124
								Baro Pressure	18000466

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Part Number Summary Form

Manufacturer: General Engine Products LLC

Engine category: On-highway HDDE

EPA Engine Family: 5GEPH06.5527

Mfr Family Name: N/A

Process Code: New Submission

Engine Code	Engine Model	Glow plug	Glow plug cntrlr	C/case reg valv	EGR valve	EGR cooler	Wstgate Solnd
1	L65	5745281	5745246	5714132	18000404	18000405	5745247