

PERFORMANCE DATA [C18PD1A]

NOVEMBER 10, 2021

For Help Desk Phone Numbers [Click here](#)

Perf No: EM3838

Change Level: 02

[General](#)

[Heat Rejection](#)

[Emissions](#)

[Regulatory](#)

[Altitude Derate](#)

[Cross Reference](#)

[Perf Param Ref](#)

[View PDF](#)

SALES MODEL:	C18	COMBUSTION:	DIRECT INJECTION
BRAND:	CAT	ENGINE SPEED (RPM):	1,800
ENGINE POWER (BHP):	983	HERTZ:	60
GEN POWER WITH FAN (EKW):	650.0	FAN POWER (HP):	42.2
COMPRESSION RATIO:	14	ADDITIONAL PARASITICS (HP):	10.1
RATING LEVEL:	STANDBY	ASPIRATION:	TA
PUMP QUANTITY:	1	AFTERCOOLER TYPE:	ATAAC
FUEL TYPE:	DIESEL	AFTERCOOLER CIRCUIT TYPE:	JW+OC, ATAAC
MANIFOLD TYPE:	DRY	INLET MANIFOLD AIR TEMP (F):	120
GOVERNOR TYPE:	ELEC	JACKET WATER TEMP (F):	192.2
CAMSHAFT TYPE:	STANDARD	TURBO CONFIGURATION:	PARALLEL
IGNITION TYPE:	CI	TURBO QUANTITY:	2
INJECTOR TYPE:	EUI	TURBOCHARGER MODEL:	GTD5008 0.75 A/R
REF EXH STACK DIAMETER (IN):	6	CERTIFICATION YEAR:	2018
MAX OPERATING ALTITUDE (FT):	3,996	PISTON SPD @ RATED ENG SPD (FT/MIN):	2,161.4

INDUSTRY	SUB INDUSTRY	APPLICATION
ELECTRIC POWER	STANDARD	PACKAGED GENSET

General Performance Data [Top](#)

GENSET POWER WITH FAN	PERCENT LOAD	ENGINE POWER	BRAKE MEAN EFF PRES (BMEP)	BRAKE SPEC FUEL CONSUMPTN (BSFC)	ISO BRAKE SPEC FUEL CONSUMPTN (BSFC)	VOL FUEL CONSUMPTN (VFC)	ELEC SPEC FUEL CONSUMPTN (ESFC)	ISO ELEC SPEC FUEL CONSUMPTN (ESFC)
EKW	%	BHP	PSI	LB/BHP-HR	LB/BHP-HR	GAL/HR	LB/EKW-HR	LB/EKW-HR
650.0	100	984	391	0.349	0.343	48.5	0.529	0.519
585.0	90	885	352	0.347	0.340	43.2	0.524	0.514
520.0	80	788	314	0.353	0.347	39.3	0.536	0.526
487.5	75	741	295	0.350	0.344	36.6	0.533	0.522
455.0	70	694	276	0.345	0.338	33.7	0.526	0.516
390.0	60	601	239	0.348	0.342	29.5	0.537	0.526
325.0	50	509	202	0.353	0.346	25.3	0.553	0.542
260.0	40	419	167	0.359	0.353	21.2	0.579	0.568
195.0	30	329	131	0.370	0.363	17.1	0.623	0.612
162.5	25	284	113	0.377	0.370	15.1	0.659	0.646
130.0	20	238	95	0.389	0.382	13.1	0.713	0.699
65.0	10	146	58	0.439	0.431	9.0	0.988	0.969

GENSET POWER WITH FAN	PERCENT LOAD	ENGINE POWER	INLET MFLD PRES	INLET MFLD TEMP	EXH MFLD TEMP	EXH MFLD PRES	ENGINE OUTLET TEMP	COMPRESSOR OUTLET PRES	COMPRESSOR OUTLET TEMP
EKW	%	BHP	IN-HG	DEG F	DEG F	IN-HG	DEG F	IN-HG	DEG F
650.0	100	984	95.1	117.3	1,233.3	85.5	798.6	101	467.6
585.0	90	885	88.1	109.4	1,161.7	77.4	747.6	94	440.8
520.0	80	788	82.8	109.1	1,117.9	72.2	723.3	88	423.5
487.5	75	741	77.1	105.9	1,084.0	66.5	703.0	82	405.1
455.0	70	694	71.6	101.6	1,048.5	60.0	682.5	77	384.0
390.0	60	601	61.3	96.6	1,008.5	51.0	672.1	66	354.2
325.0	50	509	50.9	92.2	976.4	42.2	670.0	55	323.1

GENSET POWER WITH FAN	PERCENT LOAD	ENGINE POWER	INLET MFLD PRES	INLET MFLD TEMP	EXH MFLD TEMP	EXH MFLD PRES	ENGINE OUTLET TEMP	COMPRESSOR OUTLET PRES	COMPRESSOR OUTLET TEMP
260.0	40	419	39.4	88.2	933.6	33.6	656.6	43	281.4
195.0	30	329	28.0	84.8	880.5	25.0	634.1	31	236.7
162.5	25	284	22.7	83.3	849.9	20.8	619.2	25	214.0
130.0	20	238	18.0	82.0	807.2	17.2	595.6	20	192.6
65.0	10	146	9.8	80.1	687.4	11.5	523.3	12	151.2

GENSET POWER WITH FAN	PERCENT LOAD	ENGINE POWER	WET INLET AIR VOL FLOW RATE	ENGINE OUTLET WET EXH GAS VOL FLOW RATE	WET INLET AIR MASS FLOW RATE	WET EXH GAS MASS FLOW RATE	WET EXH VOL FLOW RATE (32 DEG F AND 29.98 IN HG)	DRY EXH VOL FLOW RATE (32 DEG F AND 29.98 IN HG)
EKW	%	BHP	CFM	CFM	LB/HR	LB/HR	FT3/MIN	FT3/MIN
650.0	100	984	2,309.8	5,618.4	10,086.4	10,430.1	2,195.3	2,020.9
585.0	90	885	2,209.4	5,117.7	9,595.2	9,901.9	2,084.3	1,927.2
520.0	80	788	2,129.5	4,822.0	9,208.4	9,486.0	2,004.2	1,859.7
487.5	75	741	2,034.7	4,528.2	8,771.3	9,028.9	1,914.9	1,779.2
455.0	70	694	1,941.2	4,196.1	8,342.6	8,581.8	1,806.2	1,680.0
390.0	60	601	1,761.3	3,741.1	7,525.5	7,733.5	1,625.3	1,513.7
325.0	50	509	1,574.1	3,320.0	6,687.6	6,867.3	1,445.0	1,347.4
260.0	40	419	1,364.6	2,827.3	5,760.8	5,911.2	1,245.3	1,163.6
195.0	30	329	1,151.2	2,323.3	4,829.0	4,950.5	1,044.4	978.7
162.5	25	284	1,046.0	2,072.5	4,374.8	4,481.9	944.4	886.6
130.0	20	238	946.0	1,830.4	3,947.8	4,040.5	852.8	802.3
65.0	10	146	755.3	1,359.8	3,147.2	3,211.4	680.1	643.3

Heat Rejection Data [Top](#)

GENSET POWER WITH FAN	PERCENT LOAD	ENGINE POWER	REJECTION TO JACKET WATER	REJECTION TO ATMOSPHERE	REJECTION TO EXH	EXHAUST RECOVERY TO 350F	FROM OIL COOLER	FROM AFTERCOOLER	WORK ENERGY	LOW HEAT VALUE ENERGY	HIGH HEAT VALUE ENERGY
EKW	%	BHP	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN
650.0	100	984	11,813	6,939	37,627	19,655	5,612	14,151	41,710	105,365	112,240
585.0	90	885	10,521	6,270	33,118	16,441	5,008	12,736	37,524	94,034	100,169
520.0	80	788	9,757	5,599	30,632	14,737	4,551	11,592	33,437	85,442	91,017
487.5	75	741	9,144	5,573	28,123	13,235	4,239	10,511	31,425	79,583	84,776
455.0	70	694	8,489	5,661	25,162	11,826	3,908	9,434	29,424	73,382	78,170
390.0	60	601	7,717	5,284	22,097	10,303	3,417	7,765	25,478	64,155	68,341
325.0	50	509	7,027	4,769	19,099	9,081	2,933	6,184	21,590	55,075	58,669
260.0	40	419	6,418	4,176	16,350	7,476	2,458	4,458	17,762	46,152	49,164
195.0	30	329	5,771	3,581	13,465	5,785	1,985	2,937	13,947	37,269	39,701
162.5	25	284	5,406	3,282	11,948	4,956	1,748	2,291	12,032	32,818	34,960
130.0	20	238	5,010	2,985	10,416	4,064	1,513	1,749	10,104	28,410	30,264
65.0	10	146	4,055	2,394	7,420	2,261	1,048	897	6,197	19,678	20,962

Emissions Data [Top](#)

Units Filter ▼

DIESEL

RATED SPEED NOMINAL DATA: 1800 RPM

GENSET POWER WITH FAN ENGINE POWER	EKW BHP	650.0 984	487.5 741	325.0 509	162.5 284	65.0 146
PERCENT LOAD	%	100	75	50	25	10
TOTAL NOX (AS NO2)	G/HR	4,496	2,823	1,816	1,264	751
TOTAL CO	G/HR	208	95	90	345	1,048
TOTAL HC	G/HR	86	66	48	57	380
TOTAL CO2	KG/HR	501	378	261	157	91
PART MATTER	G/HR	33.4	20.2	21.2	24.7	47.2
TOTAL NOX (AS NO2)	(CORR 5% O2) MG/NM3	2,053.7	1,717.1	1,583.2	1,880.0	1,848.3

GENSET POWER WITH FAN ENGINE POWER		EKW BHP	650.0 984	487.5 741	325.0 509	162.5 284	65.0 146
PERCENT LOAD		%	100	75	50	25	10
TOTAL CO	(CORR 5% O2)	MG/NM3	95.3	56.6	95.6	538.2	3,087.9
TOTAL HC	(CORR 5% O2)	MG/NM3	34.1	34.8	37.3	74.3	1,010.0
PART MATTER	(CORR 5% O2)	MG/NM3	13.0	10.3	16.3	32.3	122.3
TOTAL NOX (AS NO2)	(CORR 15% O2)	MG/NM3	762.1	637.2	587.5	697.6	685.8
TOTAL CO	(CORR 15% O2)	MG/NM3	35.4	21.0	35.5	199.7	1,145.8
TOTAL HC	(CORR 15% O2)	MG/NM3	12.6	12.9	13.8	27.6	374.8
PART MATTER	(CORR 15% O2)	MG/NM3	4.8	3.8	6.0	12.0	45.4
TOTAL NOX (AS NO2)	(CORR 5% O2)	PPM	1,000	836	771	916	900
TOTAL CO	(CORR 5% O2)	PPM	76	45	76	431	2,470
TOTAL HC	(CORR 5% O2)	PPM	64	65	70	139	1,885
TOTAL NOX (AS NO2)	(CORR 15% O2)	PPM	371	310	286	340	334
TOTAL CO	(CORR 15% O2)	PPM	28	17	28	160	917
TOTAL HC	(CORR 15% O2)	PPM	24	24	26	51	700
TOTAL NOX (AS NO2)		G/HP-HR	4.61	3.83	3.58	4.46	5.15
TOTAL CO		G/HP-HR	0.21	0.13	0.18	1.22	7.18
TOTAL HC		G/HP-HR	0.09	0.09	0.10	0.20	2.60
PART MATTER		G/HP-HR	0.03	0.03	0.04	0.09	0.32
TOTAL NOX (AS NO2)		G/KW-HR	6.26	5.21	4.87	6.07	7.00
TOTAL CO		G/KW-HR	0.29	0.18	0.24	1.66	9.76
TOTAL HC		G/KW-HR	0.12	0.12	0.13	0.27	3.53
PART MATTER		G/KW-HR	0.05	0.04	0.06	0.12	0.44
TOTAL NOX (AS NO2)		LB/HR	9.91	6.22	4.00	2.79	1.66
TOTAL CO		LB/HR	0.46	0.21	0.20	0.76	2.31
TOTAL HC		LB/HR	0.19	0.15	0.11	0.13	0.84
TOTAL CO2		LB/HR	1,104	834	576	347	201
PART MATTER		LB/HR	0.07	0.04	0.05	0.05	0.10
OXYGEN IN EXH		%	10.7	12.1	12.9	13.6	15.1
DRY SMOKE OPACITY		%	0.5	0.4	0.6	1.1	0.5
BOSCH SMOKE NUMBER			0.72	0.70	0.75	0.88	0.72

RATED SPEED POTENTIAL SITE VARIATION: 1800 RPM

GENSET POWER WITH FAN ENGINE POWER		EKW BHP	650.0 984	487.5 741	325.0 509	162.5 284	65.0 146
PERCENT LOAD		%	100	75	50	25	10
TOTAL NOX (AS NO2)		G/HR	4,855	3,049	1,962	1,365	811
TOTAL CO		G/HR	388	178	169	646	1,960
TOTAL HC		G/HR	162	125	91	108	717
PART MATTER		G/HR	65.2	39.4	41.3	48.3	92.0
TOTAL NOX (AS NO2)	(CORR 5% O2)	MG/NM3	2,218.0	1,854.5	1,709.9	2,030.4	1,996.1
TOTAL CO	(CORR 5% O2)	MG/NM3	178.2	105.8	178.8	1,006.5	5,774.4
TOTAL HC	(CORR 5% O2)	MG/NM3	64.4	65.8	70.5	140.3	1,908.9
PART MATTER	(CORR 5% O2)	MG/NM3	25.3	20.2	31.7	62.9	238.4
TOTAL NOX (AS NO2)	(CORR 15% O2)	MG/NM3	823.0	688.1	634.5	753.4	740.7
TOTAL CO	(CORR 15% O2)	MG/NM3	66.1	39.3	66.3	373.5	2,142.7
TOTAL HC	(CORR 15% O2)	MG/NM3	23.9	24.4	26.2	52.1	708.3
PART MATTER	(CORR 15% O2)	MG/NM3	9.4	7.5	11.8	23.4	88.5
TOTAL NOX (AS NO2)	(CORR 5% O2)	PPM	1,080	903	833	989	972
TOTAL CO	(CORR 5% O2)	PPM	143	85	143	805	4,620
TOTAL HC	(CORR 5% O2)	PPM	120	123	132	262	3,563
TOTAL NOX (AS NO2)	(CORR 15% O2)	PPM	401	335	309	367	361
TOTAL CO	(CORR 15% O2)	PPM	53	31	53	299	1,714
TOTAL HC	(CORR 15% O2)	PPM	45	46	49	97	1,322
TOTAL NOX (AS NO2)		G/HP-HR	4.98	4.14	3.87	4.82	5.56
TOTAL CO		G/HP-HR	0.40	0.24	0.33	2.28	13.42
TOTAL HC		G/HP-HR	0.17	0.17	0.18	0.38	4.91
PART MATTER		G/HP-HR	0.07	0.05	0.08	0.17	0.63
TOTAL NOX (AS NO2)		G/KW-HR	6.77	5.63	5.26	6.55	7.56
TOTAL CO		G/KW-HR	0.54	0.33	0.45	3.10	18.25
TOTAL HC		G/KW-HR	0.23	0.23	0.24	0.52	6.68
PART MATTER		G/KW-HR	0.09	0.07	0.11	0.23	0.86
TOTAL NOX (AS NO2)		LB/HR	10.70	6.72	4.32	3.01	1.79
TOTAL CO		LB/HR	0.86	0.39	0.37	1.42	4.32
TOTAL HC		LB/HR	0.36	0.28	0.20	0.24	1.58
PART MATTER		LB/HR	0.14	0.09	0.09	0.11	0.20

Regulatory Information [Top](#)

EPA EMERGENCY STATIONARY		2011 - ----	
GASEOUS EMISSIONS DATA MEASUREMENTS PROVIDED TO THE EPA ARE CONSISTENT WITH THOSE DESCRIBED IN EPA 40 CFR PART 60 SUBPART IIII AND ISO 8178 FOR MEASURING HC, CO, PM, AND NOX. THE "MAX LIMITS" SHOWN BELOW ARE WEIGHTED CYCLE AVERAGES AND ARE IN COMPLIANCE WITH THE EMERGENCY STATIONARY REGULATIONS.			
Locality	Agency	Regulation	Tier/Stage
U.S. (INCL CALIF)	EPA	STATIONARY	EMERGENCY STATIONARY
			Max Limits - G/BKW - HR
			CO: 3.5 NOx + HC: 6.4 PM: 0.20

Altitude Derate Data [Top](#)

STANDARD

ALTITUDE CORRECTED POWER CAPABILITY (BHP)

AMBIENT OPERATING TEMP (F)	50	60	70	80	90	100	110	120	130	140	NORMAL
ALTITUDE (FT)											
0	983	983	983	983	983	983	983	983	983	957	983
1,000	983	983	983	983	983	983	983	983	971	935	983
2,000	983	983	983	983	983	983	983	969	935	908	983
3,000	983	983	983	983	983	983	964	933	907	871	983
4,000	983	983	983	983	983	959	929	905	879	792	983
5,000	983	983	983	969	952	925	903	877	835	716	983
6,000	983	983	966	951	937	911	884	846	781	683	983
7,000	983	983	965	951	934	902	862	805	760	671	983
8,000	983	976	958	946	919	877	814	769	731	664	983
9,000	971	953	936	925	895	819	771	730	708	658	977
10,000	944	926	909	899	847	795	751	725	700	659	955
11,000	908	892	878	868	816	774	739	711	682	653	924
12,000	874	860	848	838	792	755	720	687	656	623	893
13,000	837	825	814	804	771	730	689	654	619	594	859
14,000	796	785	776	767	725	682	646	613	591	569	823
15,000	751	740	730	708	669	635	607	586	565	544	782

Cross Reference [Top](#)

Test Spec	Setting	Engine Arrangement	Engineering Model	Engineering Model Version	Start Effective Serial Number	End Effective Serial Number
4581994	PP7265	5365365	GS668	-	LTH00001	
4582012	PP7580	5407425	EE563	-	LT400001	
4582012	PP7580	5407426	EE563	-	LT400001	
4581994	PP7265	5411973	GS668	-	LTH00001	

Performance Parameter Reference [Top](#)

Parameters Reference: DM9600 - 14

PERFORMANCE DEFINITIONS

PERFORMANCE DEFINITIONS DM9600

APPLICATION: Engine performance tolerance values below are representative of a typical production engine tested in a calibrated dynamometer test cell at SAE J1995 standard reference conditions. Caterpillar maintains ISO9001:2000 certified quality management systems for engine test Facilities to assure accurate calibration of test equipment. Engine test data is corrected in accordance with SAE J1995. Additional reference material SAE J1228, J1349, ISO 8665, 3046-1:2002E, 3046-3:1989, 1585, 2534, 2288, and 9249 may apply in part or are similar to SAE J1995. Special engine rating request (SERR) test data shall be noted.

PERFORMANCE PARAMETER TOLERANCE FACTORS: Power +/- 3% Torque +/- 3% Exhaust stack temperature +/- 8% Inlet airflow +/- 5% Intake manifold pressure-gage +/- 10% Exhaust flow +/- 6% Specific fuel consumption +/- 3% Fuel rate +/- 5% Specific DEF consumption +/- 3% DEF rate +/- 5% Heat rejection +/- 5% Heat rejection exhaust only +/- 10% Heat rejection CEM only +/- 10%

Heat Rejection values based on using treated water.

Torque is included for truck and industrial applications, do not use for Gen Set or steady state applications.

On C7 - C18 engines, at speeds of 1100 RPM and under these values are provided for reference only, and may not meet the tolerance listed.

On 3500 and C175 engines, at speeds below Peak Torque these values are provided for reference only, and may not meet the tolerance listed.

These values do not apply to C280/3600. For these models, see the tolerances listed below.

C280/3600 HEAT REJECTION TOLERANCE FACTORS: Heat rejection +/- 10% Heat rejection to Atmosphere +/- 50%

Heat rejection to Lube Oil +/- 20% Heat rejection to Aftercooler +/- 5%

TEST CELL TRANSDUCER TOLERANCE FACTORS: Torque +/- 0.5% Speed +/- 0.2% Fuel flow +/- 1.0% Temperature +/- 2.0 C degrees Intake manifold pressure +/- 0.1 kPa
OBSERVED ENGINE PERFORMANCE IS CORRECTED TO SAE J1995 REFERENCE AIR AND FUEL CONDITIONS.

REFERENCE ATMOSPHERIC INLET AIR FOR 3500 ENGINES AND SMALLER SAE J1228 AUG2002 for marine engines, and J1995 JAN2014 for other engines, reference atmospheric pressure is 100 KPA (29.61 in hg), and standard temperature is 25deg C (77 deg F) at 30% relative humidity at the stated aftercooler water temp, or inlet manifold temp.
FOR 3600 ENGINES Engine rating obtained and presented in accordance with ISO 3046/1 and SAE J1995 JANJAN2014 reference atmospheric pressure is 100 KPA (29.61 in hg), and standard temperature is 25deg C (77 deg F) at 30% relative humidity and 150M altitude at the stated aftercooler water temperature.

MEASUREMENT LOCATION FOR INLET AIR TEMPERATURE Location for air temperature measurement air cleaner inlet at stabilized operating conditions.

REFERENCE EXHAUST STACK DIAMETER The Reference Exhaust Stack Diameter published with this dataset is only used for the calculation of Smoke Opacity values displayed in this dataset. This value does not necessarily represent the actual stack diameter of the engine due to the variety of exhaust stack adapter options available. Consult the price list, engine order or general dimension drawings for the actual stack diameter size ordered or options available.

REFERENCE FUEL DIESEL Reference fuel is #2 distillate diesel with a 35API gravity; A lower heating value is 42,780 KJ/KG (18,390 BTU/LB) when used at 15 deg C (59 deg F), where the density is 850 G/Liter (7.0936 Lbs/Gal).
GAS Reference natural gas fuel has a lower heating value of 33.74 KJ/L (905 BTU/CU Ft). Low BTU ratings are based on 18.64 KJ/L (500 BTU/CU FT) lower heating value gas. Propane ratings are based on 87.56 KJ/L (2350 BTU/CU Ft) lower heating value gas.

ENGINE POWER (NET) IS THE CORRECTED FLYWHEEL POWER (GROSS) LESS EXTERNAL AUXILIARY LOAD Engine corrected gross output includes the power required to drive standard equipment; lube oil, scavenge lube oil, fuel transfer, common rail fuel, separate circuit aftercooler and jacket water pumps. Engine net power available for the external (flywheel) load is calculated by subtracting the sum of auxiliary load from the corrected gross flywheel output power. Typical auxiliary loads are radiator cooling fans, hydraulic pumps, air compressors and battery charging alternators. For Tier 4 ratings additional Parasitic losses would also include Intake, and Exhaust Restrictions.

ALTITUDE CAPABILITY Altitude capability is the maximum altitude above sea level at standard temperature and standard pressure at which the engine could develop full rated output power on the current performance data set. Standard temperature values versus altitude could be seen on TM2001.

When viewing the altitude capability chart the ambient temperature is the inlet air temp at the compressor inlet. Engines with ADEM MEUI and HEUI fuel systems operating at conditions above the defined altitude capability derate for atmospheric pressure and temperature conditions outside the values defined, see TM2001. Mechanical governor controlled unit injector engines require a setting change for operation at conditions above the altitude defined on the engine performance sheet. See your Caterpillar technical representative for non standard ratings.

REGULATIONS AND PRODUCT COMPLIANCE TMI Emissions information is presented at 'nominal' and 'Potential Site Variation' values for standard ratings. No tolerances are applied to the emissions data. These values are subject to change at any time. The controlling federal and local emission requirements need to be verified by your Caterpillar technical representative. Customer's may have special emission site requirements that need to be verified by the Caterpillar Product Group engineer.

EMISSION CYCLE LIMITS: Cycle emissions Max Limits apply to cycle-weighted averages only. Emissions at individual load points may exceed the cycle-weighted limit.

WET & DRY EXHAUST/EMISSIONS DESCRIPTION: Wet - Total exhaust flow or concentration of total exhaust flow Dry - Total exhaust flow minus water vapor or concentration of exhaust flow with water vapor excluded

EMISSIONS DEFINITIONS: Emissions : DM1176

EMISSION CYCLE DEFINITIONS

1. For constant-speed marine engines for ship main propulsion, including, diesel-electric drive, test cycle E2 shall be applied, for controllable-pitch propeller sets test cycle E2 shall be applied.
2. For propeller-law-operated main and propeller-law-operated auxiliary engines the test cycle E3 shall be applied.
3. For constant-speed auxiliary engines test cycle D2 shall be applied.
4. For variable-speed, variable-load auxiliary engines, not included above, test cycle C1 shall be applied.

HEAT REJECTION DEFINITIONS: Diesel Circuit Type and HHV Balance : DM9500

HIGH DISPLACEMENT (HD) DEFINITIONS: 3500: EM1500

RATING DEFINITIONS: Agriculture : TM6008

Fire Pump : TM6009

Generator Set : TM6035

Generator (Gas) : TM6041

Industrial Diesel : TM6010

Industrial (Gas) : TM6040

Irrigation : TM5749

Locomotive : TM6037

Marine Auxiliary : TM6036

Marine Prop (Except 3600) : TM5747

Marine Prop (3600 only) : TM5748

MSHA : TM6042

Oil Field (Petroleum) : TM6011

Off-Highway Truck : TM6039

On-Highway Truck : TM6038

SOUND DEFINITIONS: Sound Power : DM8702

Sound Pressure : TM7080

