

Performance Number: DM9037

Change Level: 05

SALES MODEL:	C27	COMBUSTION:	DIRECT INJECTION
BRAND:	CAT	ENGINE SPEED (RPM):	2,100
MACHINE SALES MODEL:		PEAK TORQUE SPEED (RPM):	1,400
ENGINE POWER (BKW):	596.5	ASPIRATION:	TA
PEAK TORQUE (NM):	3,657.0	AFTERCOOLER TYPE:	ATAAC
COMPRESSION RATIO:	16.5	AFTERCOOLER CIRCUIT TYPE:	JW+OC, AC
RATING LEVEL:	A-RATING	INLET MANIFOLD AIR TEMP (C):	49
PUMP QUANTITY:	1	JACKET WATER TEMP (C):	99
FUEL TYPE:	DIESEL	TURBO CONFIGURATION:	PARALLEL
MANIFOLD TYPE:	DRY	TURBO QUANTITY:	2
ELECTRONICS TYPE:	ADEM4	TURBOCHARGER MODEL:	GTA5008BL-53T-1.41
IGNITION TYPE:	CI	CERTIFICATION YEAR:	2006
INJECTOR TYPE:	EUI	PISTON SPD @ RATED ENG SPD (M/SEC):	10.7
REF EXH STACK DIAMETER (MM):	203		
MAX OPERATING ALTITUDE (M):	1,525		

INDUSTRY	SUBINDUSTRY	APPLICATION
INDUSTRIAL	GENERAL INDUSTRIAL	INDUSTRIAL
INDUSTRIAL	MATERIAL HANDLING	INDUSTRIAL
OIL AND GAS	LAND DRILLING	INDUSTRIAL
INDUSTRIAL	CONSTRUCTION	INDUSTRIAL
INDUSTRIAL	AGRICULTURE	INDUSTRIAL
INDUSTRIAL	MINING	INDUSTRIAL
OIL AND GAS	WELL SERVICING	INDUSTRIAL
OIL AND GAS	LAND PRODUCTION	INDUSTRIAL
INDUSTRIAL	FORESTRY	INDUSTRIAL

General Performance Data

ENGINE SPEED	ENGINE POWER	ENGINE TORQUE	BRAKE MEAN EFF PRES (BMEP)	BRAKE SPEC FUEL CONSUMPTN (BSFC)	ISO BRAKE SPEC FUEL CONSUMPTN (BSFC)	VOL FUEL CONSUMPTN (VFC)	ISO VOL FUEL CONSUMPTN (VFC)
RPM	BKW	NM	KPA	G/BKW-HR	G/BKW-HR	L/HR	L/HR
2,100	597	2,714	1,262	205.9	201.0	144.5	141.0
2,000	597	2,850	1,325	202.4	197.5	142.0	138.6
1,900	597	2,999	1,395	200.4	195.7	140.6	137.3
1,800	597	3,166	1,472	198.7	194.0	139.4	136.1
1,700	597	3,352	1,559	198.5	193.8	139.3	136.0
1,600	592	3,536	1,644	199.9	195.1	139.3	136.0
1,500	578	3,680	1,711	202.3	197.5	137.6	134.3
1,400	548	3,735	1,737	205.5	200.7	132.4	129.3
1,300	503	3,693	1,718	205.7	200.8	121.7	118.8
1,200	441	3,512	1,633	208.9	203.9	108.4	105.9
1,100	401	3,481	1,619	211.1	206.1	99.6	97.2
1,000	336	3,204	1,490	207.2	202.3	81.8	79.8
900	261	2,771	1,289	206.7	201.7	63.5	62.0
800	207	2,471	1,149	207.8	202.8	50.6	49.4
700	165	2,250	1,046	210.2	205.2	40.8	39.8
600	116	1,849	860	216.9	211.7	29.6	28.9

ENGINE SPEED	ENGINE POWER	INLET MFLD PRES	INLET MFLD TEMP	EXH MFLD TEMP	EXH MFLD PRES	ENGINE OUTLET TEMP	COMPRESSOR OUTLET PRES	COMPRESSOR OUTLET TEMP
RPM	BKW	KPA	DEG C	DEG C	KPA	DEG C	KPA	DEG C
2,100	597	136.8	49.3	506.4	119.9	379.3	148	147.3
2,000	597	130.8	49.1	518.3	109.6	393.6	142	143.9
1,900	597	126.7	49.2	541.0	98.9	416.4	135	141.0
1,800	597	119.2	49.1	569.1	88.0	443.7	127	136.8
1,700	597	119.6	47.8	588.8	82.1	462.5	126	136.2
1,600	592	119.6	45.1	608.9	76.7	485.2	125	134.4
1,500	578	119.2	43.5	632.1	71.0	506.5	124	136.0
1,400	548	113.2	41.0	653.0	62.3	529.0	118	133.8
1,300	503	99.7	37.7	665.8	51.3	543.4	103	124.1
1,200	441	81.8	34.0	675.3	39.9	555.2	84	111.0
1,100	401	71.4	32.0	691.2	33.1	568.1	74	103.7
1,000	336	50.7	29.5	656.0	23.8	539.9	52	85.4
900	261	36.0	28.0	602.3	17.6	498.8	37	71.3
800	207	24.5	27.0	557.8	12.3	459.4	26	58.9

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700	165	17.6	26.8	518.2	8.8	422.4	18	50.7
600	116	9.7	26.9	452.3	5.1	367.8	10	41.3

General Performance Data (Continued)

ENGINE SPEED	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	ENGINE OUTLET WET EXH VOL FLOW RATE (0 DEG C AND 101 KPA)	ENGINE OUTLET DRY EXH VOL FLOW RATE (0 DEG C AND 101 KPA)
RPM	BKW	M3/MIN	M3/MIN	KG/HR	KG/HR	M3/MIN	M3/MIN
2,100	597	58.8	131.5	4,067.1	4,189.8	55.1	51.0
2,000	597	55.2	126.0	3,807.5	3,928.2	51.6	47.7
1,900	597	50.8	120.3	3,508.0	3,627.6	47.7	43.9
1,800	597	46.4	114.6	3,204.7	3,323.2	43.7	39.9
1,700	597	44.3	112.0	3,046.0	3,164.4	41.6	37.9
1,600	592	42.5	110.4	2,906.5	3,024.8	39.7	36.1
1,500	578	40.3	107.4	2,745.9	2,862.9	37.6	34.0
1,400	548	37.0	101.4	2,516.1	2,628.7	34.5	31.1
1,300	503	32.4	90.2	2,193.5	2,297.0	30.2	27.1
1,200	441	27.6	77.8	1,859.1	1,951.3	25.6	22.9
1,100	401	24.0	68.6	1,611.3	1,695.9	22.3	19.8
1,000	336	19.3	53.2	1,289.5	1,359.0	17.9	15.8
900	261	15.8	41.2	1,055.8	1,109.7	14.6	13.0
800	207	12.9	31.9	861.5	904.5	11.9	10.6
700	165	10.6	24.9	708.3	742.9	9.8	8.7
600	116	8.4	18.0	559.6	584.8	7.7	6.9

Heat Rejection Data

ENGINE POWER	REJECTION TO JACKET WATER	REJECTION TO ATMOSPHERE	REJECTION TO EXH	EXH RECOVERY TO 177C	FROM OIL COOLER	FROM AFTERCOOLER	WORK ENERGY	LOW HEAT VALUE ENERGY	HIGH HEAT VALUE ENERGY
BKW	KW	KW	KW	KW	KW	KW	KW	KW	KW
597	250	93.3	536	246	77.7	93.4	597	1,460	1,555

Emissions Data

DIESEL

RATED SPEED NOMINAL DATA: 2100 RPM

ENGINE POWER	BKW	596	447	298	149	59.7
PERCENT LOAD	%	100	75	50	25	10
TOTAL NOX (AS NO2)	G/HR	3,890	2,093	1,599	1,127	689
TOTAL CO	G/HR	237	311	318	394	445
TOTAL HC	G/HR	45	54	51	61	77
TOTAL CO2	KG/HR	393	312	213	129	79
PART MATTER	G/HR	46.3	65.3	79.6	70.7	44.6
TOTAL NOX (AS NO2) (CORR 5% O2)	MG/NM3	2,201.6	1,467.7	1,613.4	1,819.7	1,689.0
TOTAL CO (CORR 5% O2)	MG/NM3	134.1	218.1	321.3	637.4	1,089.9
TOTAL HC (CORR 5% O2)	MG/NM3	25.7	38.1	51.0	98.8	188.6
PART MATTER (CORR 5% O2)	MG/NM3	22.3	39.5	70.4	102.7	100.7
TOTAL NOX (AS NO2) (CORR 15% O2)	MG/NM3	816.9	544.6	598.7	675.2	626.7
TOTAL CO (CORR 15% O2)	MG/NM3	49.8	80.9	119.2	236.5	404.4
TOTAL HC (CORR 15% O2)	MG/NM3	9.5	14.1	18.9	36.7	70.0
PART MATTER (CORR 15% O2)	MG/NM3	8.3	14.7	26.1	38.1	37.4
TOTAL NOX (AS NO2) (CORR 5% O2)	PPM	1,107	746	830	970	955
TOTAL CO (CORR 5% O2)	PPM	111	182	272	559	1,014
TOTAL HC (CORR 5% O2)	PPM	43	64	87	175	354
TOTAL NOX (AS NO2) (CORR 15% O2)	PPM	411	277	308	360	354
TOTAL CO (CORR 15% O2)	PPM	41	68	101	207	376
TOTAL HC (CORR 15% O2)	PPM	16	24	32	65	131

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TOTAL NOX (AS NO2)	G/HP-HR	4.86	3.49	4.00	5.64	8.61
TOTAL CO	G/HP-HR	0.30	0.52	0.80	1.97	5.56
TOTAL HC	G/HP-HR	0.06	0.09	0.13	0.31	0.96
PART MATTER	G/HP-HR	0.06	0.11	0.20	0.35	0.56
TOTAL NOX (AS NO2)	G/KW-HR	6.61	4.74	5.44	7.66	11.71
TOTAL CO	G/KW-HR	0.40	0.70	1.08	2.68	7.56
TOTAL HC	G/KW-HR	0.08	0.12	0.17	0.41	1.31
PART MATTER	G/KW-HR	0.08	0.15	0.27	0.48	0.76
TOTAL NOX (AS NO2)	LB/HR	8.58	4.61	3.52	2.48	1.52
TOTAL CO	LB/HR	0.52	0.69	0.70	0.87	0.98
TOTAL HC	LB/HR	0.10	0.12	0.11	0.13	0.17
TOTAL CO2	LB/HR	866	687	470	285	175
PART MATTER	LB/HR	0.10	0.14	0.18	0.16	0.10
OXYGEN IN EXH	%	11.4	12.5	13.7	15.7	17.4

RATED SPEED POTENTIAL SITE VARIATION: 2100 RPM

ENGINE POWER	BKW	596	447	298	149	59.7
PERCENT LOAD	%	100	75	50	25	10
TOTAL NOX (AS NO2)	G/HR	4,707	2,532	1,935	1,364	833
TOTAL CO	G/HR	443	582	595	737	832
TOTAL HC	G/HR	85	102	96	115	146
PART MATTER	G/HR	90.3	127.3	155.2	137.9	86.9
TOTAL NOX (AS NO2) (CORR 5% O2)	MG/NM3	2,663.9	1,775.9	1,952.2	2,201.8	2,043.7
TOTAL CO (CORR 5% O2)	MG/NM3	250.8	407.9	600.7	1,192.0	2,038.1
TOTAL HC (CORR 5% O2)	MG/NM3	48.6	72.0	96.4	186.7	356.4
PART MATTER (CORR 5% O2)	MG/NM3	43.5	77.0	137.3	200.3	196.4
TOTAL NOX (AS NO2) (CORR 15% O2)	MG/NM3	988.5	659.0	724.4	817.0	758.3
TOTAL CO (CORR 15% O2)	MG/NM3	93.1	151.4	222.9	442.3	756.3
TOTAL HC (CORR 15% O2)	MG/NM3	18.0	26.7	35.8	69.3	132.2
PART MATTER (CORR 15% O2)	MG/NM3	16.1	28.6	50.9	74.3	72.9
TOTAL NOX (AS NO2) (CORR 5% O2)	PPM	1,339	903	1,004	1,174	1,156
TOTAL CO (CORR 5% O2)	PPM	208	340	509	1,045	1,897
TOTAL HC (CORR 5% O2)	PPM	81	121	164	331	669
TOTAL NOX (AS NO2) (CORR 15% O2)	PPM	497	335	373	436	429
TOTAL CO (CORR 15% O2)	PPM	77	126	189	388	704
TOTAL HC (CORR 15% O2)	PPM	30	45	61	123	248
TOTAL NOX (AS NO2)	G/HP-HR	5.88	4.22	4.84	6.82	10.42
TOTAL CO	G/HP-HR	0.55	0.97	1.49	3.68	10.40
TOTAL HC	G/HP-HR	0.11	0.17	0.24	0.58	1.82
PART MATTER	G/HP-HR	0.11	0.21	0.39	0.69	1.09
TOTAL NOX (AS NO2)	G/KW-HR	8.00	5.74	6.58	9.27	14.16
TOTAL CO	G/KW-HR	0.75	1.32	2.02	5.01	14.14
TOTAL HC	G/KW-HR	0.14	0.23	0.33	0.78	2.47
PART MATTER	G/KW-HR	0.15	0.29	0.53	0.94	1.48
TOTAL NOX (AS NO2)	LB/HR	10.38	5.58	4.27	3.01	1.84
TOTAL CO	LB/HR	0.98	1.28	1.31	1.62	1.83
TOTAL HC	LB/HR	0.19	0.23	0.21	0.25	0.32
PART MATTER	LB/HR	0.20	0.28	0.34	0.30	0.19

Regulatory Information

EPA TIER 2		2006 - 2010			
GASEOUS EMISSIONS DATA MEASUREMENTS PROVIDED TO THE EPA ARE CONSISTENT WITH THOSE DESCRIBED IN EPA 40 CFR PART 89 SUBPART D 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 NON-ROAD REGULATIONS.					
Locality	Agency	Regulation	Tier/Stage	Max Limits - G/BKW - HR	
U.S. (INCL CALIF)	EPA	NON-ROAD	TIER 2	CO: 3.5 NOx + HC: 6.4 PM: 0.20	

Altitude Derate Data

STANDARD

ALTITUDE CORRECTED POWER CAPABILITY (BKW)

AMBIENT OPERATING TEMP (C)	0	5	10	15	20	25	30	35	40	45	50	55	60	NORMAL
ALTITUDE (M)														
0	596	596	596	596	596	596	596	596	596	596	596	596	596	596
250	596	596	596	596	596	596	596	596	596	596	596	596	596	596
500	596	596	596	596	596	596	596	596	596	596	596	596	596	596
750	596	596	596	596	596	596	596	596	596	596	596	587	578	596
1,000	596	596	596	596	596	596	596	596	596	587	578	569	561	596
1,250	596	596	596	596	596	596	596	588	579	569	561	552	544	596
1,500	596	596	596	596	596	589	580	570	561	552	544	535	527	596
1,750	596	596	596	591	581	571	562	553	544	536	527	519	511	583
2,000	596	594	583	573	564	554	545	536	528	519	511	503	496	568
2,250	586	576	566	556	546	537	528	520	511	503	496	488	481	554
2,500	568	558	548	539	529	521	512	504	496	488	480	473	466	540
2,750	551	541	531	522	513	504	496	488	480	473	465	458	451	526
3,000	533	524	514	506	497	489	481	473	465	458	451	444	437	513
3,250	517	507	498	490	481	473	465	458	451	444	437	430	424	500
3,500	500	491	483	474	466	458	451	443	436	429	423	416	410	487
3,750	484	476	467	459	451	444	436	429	422	416	409	403	397	474
4,000	469	460	452	444	437	430	422	416	409	403	396	390	384	461
4,250	454	446	438	430	423	416	409	402	396	390	384	378	372	449
4,500	439	431	424	416	409	402	396	389	383	377	371	365	360	437

Cross Reference

Test Spec	Setting	Engine Arrangement	Engineering Model	Engineering Model Version	Start Effective Serial Number	End Effective Serial Number
0K4943	PP5540	2520148	E819	-	TWM00001	
0K4944	PP5541	2520148	E819	-	TWM00001	
0K4943	PP5540	3505502	E819	-	TWM00001	
0K4944	PP5541	3505502	E819	-	TWM00001	
6351678	GG3277	3505502	E819	D	KG200001	
6351679	GG3297	3505502	E819	D	KG200001	
6351678	GG3277	3531664	E819	D	KG200001	
6351679	GG3297	3531664	E819	D	KG200001	
0K4943	PP5540	3567540	E819	-	TWM00001	
0K4944	PP5541	3567540	E819	-	TWM00001	
4369513	GG0896	4400240	E819	-	TWM00001	
4369514	GG0897	4400240	E819	-	TWM00001	
6351691	GG3422	4400240	E819	D	KG200001	
6351692	GG3427	4400240	E819	D	KG200001	
6351691	GG3422	5614138	E819	D	KG200001	
6351692	GG3427	5614138	E819	D	KG200001	

Supplementary Data

Type	Classification	Performance Number
CHART	BSFC CONTOUR PLOT	EM1377

Performance Parameter Reference

Parameters Reference:DM9600-15 PERFORMANCE DEFINITIONS
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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

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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%
 Specific fuel consumption (C7-C18) +/- 4%
 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 out put power. Typical auxiliary loads are radiator cooling fans, hydraulic pumps, air compressors and battery charging alternators. For Tier 4 ratings additional

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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

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