PERFORMANCE DATA [C18PD1B]

NOVEMBER 10, 2021

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Perf No: EM3840 **Change Level:** 02

General | Heat Rejection | Emissions | Regulatory | Altitude Derate | Cross Reference | Perf Param Ref

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SALES MODEL:	C18	**COMBUSTION:**	DIRECT INJECTION
BRAND:	CAT	**ENGINE SPEED (RPM):**	1,800
ENGINE POWER (BHP):	1,053	**HERTZ:**	60
GEN POWER WITH FAN (EKW):	700.0	**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
700.0	100	1,052	418	0.348	0.342	51.7	0.523	0.513
630.0	90	949	377	0.349	0.342	46.6	0.525	0.515
560.0	80	847	337	0.349	0.343	41.7	0.528	0.518
525.0	75	797	317	0.354	0.347	39.7	0.537	0.526
490.0	70	746	297	0.351	0.344	36.9	0.534	0.524
420.0	60	646	257	0.347	0.340	31.6	0.533	0.523
350.0	50	547	218	0.351	0.344	27.1	0.549	0.538
280.0	40	450	179	0.357	0.350	22.6	0.574	0.563
210.0	30	353	140	0.366	0.359	18.2	0.616	0.604
175.0	25	304	121	0.374	0.366	16.0	0.649	0.637
140.0	20	255	101	0.384	0.377	13.8	0.699	0.686
70.0	10	155	62	0.432	0.424	9.4	0.954	0.936

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
700.0	100	1,052	98.4	120.6	1,275.1	89.5	826.0	105	483.0
630.0	90	949	92.8	114.4	1,208.0	82.7	780.6	99	458.2
560.0	80	847	86.5	109.2	1,144.4	75.6	737.3	92	434.8
525.0	75	797	83.8	109.5	1,123.1	73.0	726.4	89	426.1
490.0	70	746	77.7	106.3	1,088.0	67.2	705.3	83	407.3
420.0	60	646	66.3	99.0	1,026.0	55.4	674.9	71	368.4
350.0	50	547	55.5	94.0	990.7	45.8	671.8	60	337.8

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
280.0	40	450	43.4	89.5	949.7	36.5	662.3	47	296.5
210.0	30	353	31.0	85.6	895.8	27.3	641.0	34	248.8
175.0	25	304	25.1	83.9	864.1	22.7	626.2	28	224.2
140.0	20	255	19.6	82.4	825.5	18.3	606.1	22	200.1
70.0	10	155	10.5	80.2	699.7	12.0	531.0	12	155.0

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
700.0	100	1,052	2,347.8	5,862.7	10,286.9	10,653.3	2,242.0	2,058.1
630.0	90	949	2,277.1	5,446.4	9,924.6	10,255.3	2,159.1	1,990.6
560.0	80	847	2,186.5	5,008.2	9,480.4	9,776.3	2,057.2	1,905.1
525.0	75	797	2,145.9	4,864.8	9,284.5	9,565.8	2,016.6	1,870.8
490.0	70	746	2,045.2	4,563.7	8,819.4	9,079.1	1,926.0	1,789.3
420.0	60	646	1,849.5	3,953.0	7,924.8	8,147.5	1,713.0	1,594.5
350.0	50	547	1,656.4	3,508.2	7,054.8	7,246.5	1,524.4	1,420.6
280.0	40	450	1,438.5	3,001.0	6,086.1	6,246.7	1,315.0	1,227.8
210.0	30	353	1,208.2	2,458.4	5,076.6	5,205.8	1,098.1	1,028.2
175.0	25	304	1,093.3	2,185.3	4,578.2	4,691.8	989.5	928.1
140.0	20	255	981.4	1,916.7	4,098.3	4,196.3	884.2	831.1
70.0	10	155	772.5	1,402.7	3,218.8	3,285.6	696.2	658.2

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
700.0	100	1,052	12,482	7,434	40,176	21,374	5,982	14,930	44,626	112,319	119,648
630.0	90	949	11,356	6,717	36,029	18,510	5,400	13,662	40,246	101,394	108,010
560.0	80	847	10,226	5,964	32,158	15,789	4,832	12,364	35,926	90,718	96,638
525.0	75	797	9,849	5,629	30,971	14,991	4,600	11,772	33,785	86,370	92,006
490.0	70	746	9,217	5,565	28,437	13,401	4,275	10,632	31,648	80,263	85,500
420.0	60	646	8,089	5,485	23,622	10,958	3,658	8,549	27,413	68,677	73,159
350.0	50	547	7,299	5,010	20,299	9,643	3,136	6,888	23,216	58,871	62,712
280.0	40	450	6,630	4,382	17,316	8,053	2,623	5,043	19,091	49,249	52,463
210.0	30	353	5,953	3,741	14,257	6,237	2,112	3,317	14,970	39,650	42,237
175.0	25	304	5,575	3,417	12,640	5,327	1,855	2,572	12,897	34,829	37,102
140.0	20	255	5,158	3,092	10,966	4,408	1,598	1,933	10,807	29,999	31,956
70.0	10	155	4,153	2,448	7,693	2,417	1,091	964	6,559	20,481	21,817

Emissions Data Top

Units Filter All Units

DIESEL

RATED SPEED NOMINAL DATA: 1800 RPM

GENSET POWER WITH FAN ENGINE POWER		EKW BHP	700.0 1,052	525.0 797	350.0 547	175.0 304	70.0 155
PERCENT LOAD		%	100	75	50	25	10
TOTAL NOX (AS NO2)		G/HR	5,096	3,042	1,969	1,316	788
TOTAL CO		G/HR	269	114	82	306	990
TOTAL HC		G/HR	103	72	50	55	350
TOTAL CO2		KG/HR	532	410	279	167	95
PART MATTER		G/HR	38.7	25.2	20.1	24.6	45.2
TOTAL NOX (AS NO2)	(CORR 5% O2)	MG/NM3	2,190.5	1,700.4	1,589.7	1,857.0	1,855.7

GENSET POWER WITH FAN ENGINE POWER		EKW BHP	700.0 1,052	525.0 797	350.0 547	175.0 304	70.0 155
PERCENT LOAD		**%**	**100**	**75**	**50**	**25**	**10**
TOTAL CO	(CORR 5% O2)	MG/NM3	116.0	63.6	67.4	480.8	2,863.4
TOTAL HC	(CORR 5% O2)	MG/NM3	38.5	34.6	35.5	69.4	924.9
PART MATTER	(CORR 5% O2)	MG/NM3	14.1	12.0	14.2	30.5	114.3
TOTAL NOX (AS NO2)	(CORR 15% O2)	MG/NM3	812.8	631.0	589.9	689.1	688.6
TOTAL CO	(CORR 15% O2)	MG/NM3	43.1	23.6	25.0	178.4	1,062.5
TOTAL HC	(CORR 15% O2)	MG/NM3	14.3	12.8	13.2	25.7	343.2
PART MATTER	(CORR 15% O2)	MG/NM3	5.2	4.5	5.3	11.3	42.4
TOTAL NOX (AS NO2)	(CORR 5% O2)	PPM	1,067	828	774	905	904
TOTAL CO	(CORR 5% O2)	PPM	93	51	54	385	2,291
TOTAL HC	(CORR 5% O2)	PPM	72	65	66	129	1,727
TOTAL NOX (AS NO2)	(CORR 15% O2)	PPM	396	307	287	336	335
TOTAL CO	(CORR 15% O2)	PPM	34	19	20	143	850
TOTAL HC	(CORR 15% O2)	PPM	27	24	25	48	641
TOTAL NOX (AS NO2)		G/HP-HR	4.89	3.84	3.61	4.33	5.10
TOTAL CO		G/HP-HR	0.26	0.14	0.15	1.01	6.40
TOTAL HC		G/HP-HR	0.10	0.09	0.09	0.18	2.27
PART MATTER		G/HP-HR	0.04	0.03	0.04	0.08	0.29
TOTAL NOX (AS NO2)		G/KW-HR	6.64	5.23	4.91	5.89	6.93
TOTAL CO		G/KW-HR	0.35	0.20	0.20	1.37	8.71
TOTAL HC		G/KW-HR	0.13	0.12	0.12	0.25	3.08
PART MATTER		G/KW-HR	0.05	0.04	0.05	0.11	0.40
TOTAL NOX (AS NO2)		LB/HR	11.23	6.71	4.34	2.90	1.74
TOTAL CO		LB/HR	0.59	0.25	0.18	0.67	2.18
TOTAL HC		LB/HR	0.23	0.16	0.11	0.12	0.77
TOTAL CO2		LB/HR	1,173	905	616	368	210
PART MATTER		LB/HR	0.09	0.06	0.04	0.05	0.10
OXYGEN IN EXH		%	10.2	11.8	12.8	13.6	15.0
DRY SMOKE OPACITY		%	0.5	0.5	0.5	1.1	0.6
BOSCH SMOKE NUMBER			0.73	0.71	0.72	0.88	0.73

RATED SPEED POTENTIAL SITE VARIATION: 1800 RPM

GENSET POWER WITH FAN ENGINE POWER		EKW BHP	700.0 1,052	525.0 797	350.0 547	175.0 304	70.0 155
PERCENT LOAD		**%**	**100**	**75**	**50**	**25**	**10**
TOTAL NOX (AS NO2)		G/HR	5,503	3,286	2,127	1,421	851
TOTAL CO		G/HR	503	214	153	572	1,851
TOTAL HC		G/HR	196	135	94	104	662
PART MATTER		G/HR	75.4	49.0	39.3	48.0	88.1
TOTAL NOX (AS NO2)	(CORR 5% O2)	MG/NM3	2,365.8	1,836.5	1,716.9	2,005.6	2,004.2
TOTAL CO	(CORR 5% O2)	MG/NM3	217.0	119.0	126.1	899.0	5,354.6
TOTAL HC	(CORR 5% O2)	MG/NM3	72.8	65.4	67.1	131.1	1,748.1
PART MATTER	(CORR 5% O2)	MG/NM3	27.4	23.5	27.7	59.5	222.9
TOTAL NOX (AS NO2)	(CORR 15% O2)	MG/NM3	877.9	681.5	637.1	744.2	743.7
TOTAL CO	(CORR 15% O2)	MG/NM3	80.5	44.2	46.8	333.6	1,986.9
TOTAL HC	(CORR 15% O2)	MG/NM3	27.0	24.3	24.9	48.7	648.7
PART MATTER	(CORR 15% O2)	MG/NM3	10.2	8.7	10.3	22.1	82.7
TOTAL NOX (AS NO2)	(CORR 5% O2)	PPM	1,152	895	836	977	976
TOTAL CO	(CORR 5% O2)	PPM	174	95	101	719	4,284
TOTAL HC	(CORR 5% O2)	PPM	136	122	125	245	3,263
TOTAL NOX (AS NO2)	(CORR 15% O2)	PPM	428	332	310	362	362
TOTAL CO	(CORR 15% O2)	PPM	64	35	37	267	1,590
TOTAL HC	(CORR 15% O2)	PPM	50	45	46	91	1,211
TOTAL NOX (AS NO2)		G/HP-HR	5.28	4.15	3.90	4.68	5.50
TOTAL CO		G/HP-HR	0.48	0.27	0.28	1.88	11.98
TOTAL HC		G/HP-HR	0.19	0.17	0.17	0.34	4.28
PART MATTER		G/HP-HR	0.07	0.06	0.07	0.16	0.57
TOTAL NOX (AS NO2)		G/KW-HR	7.17	5.64	5.31	6.36	7.48
TOTAL CO		G/KW-HR	0.66	0.37	0.38	2.56	16.28
TOTAL HC		G/KW-HR	0.25	0.23	0.23	0.47	5.82
PART MATTER		G/KW-HR	0.10	0.08	0.10	0.21	0.77
TOTAL NOX (AS NO2)		LB/HR	12.13	7.24	4.69	3.13	1.88
TOTAL CO		LB/HR	1.11	0.47	0.34	1.26	4.08
TOTAL HC		LB/HR	0.43	0.30	0.21	0.23	1.46
PART MATTER		LB/HR	0.17	0.11	0.09	0.11	0.19

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	Max Limits - G/BKW - HR
U.S. (INCL CALIF)	EPA	STATIONARY	EMERGENCY STATIONARY	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	1,053	1,053	1,053	1,053	1,053	1,053	1,053	1,048	1,006	957	1,053
1,000	1,053	1,053	1,053	1,053	1,053	1,053	1,049	1,027	971	935	1,053
2,000	1,053	1,053	1,053	1,053	1,053	1,048	1,022	969	935	908	1,053
3,000	1,053	1,053	1,053	1,052	1,047	1,013	964	933	907	871	1,053
4,000	1,053	1,053	1,049	1,032	1,001	959	929	905	879	792	1,053
5,000	1,024	1,004	987	969	952	925	903	877	835	716	1,003
6,000	1,003	983	966	951	937	911	884	846	781	683	988
7,000	1,006	984	965	951	934	902	862	805	760	671	998
8,000	995	976	958	946	919	877	814	769	731	664	995
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
4581996	PP7267	5365365	GS668	-	LTH00001	
4582014	PP7583	5407425	EE563	-	LT400001	
4582014	PP7583	5407426	EE563	-	LT400001	
4581996	PP7267	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 out put 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

Date Released : 10/27/21