

MARINE ENGINE PERFORMANCE DATA
[3JK00175]

MAY 14, 2024

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Performance Number: TM9439

Change Level: ▼

Sales Model: 3412CDITA	Combustion: DI	Aspr: TA
Engine Power: 895.0 KW	Speed: 2,300 RPM	After Cooler: JWAC
Manifold Type: W/C	Governor Type:	After Cooler Temp(C): --
Turbo Quantity:	Engine App: MP	Turbo Arrangement:
Application Type: M PROP ENG	Engine Rating: MP	Strategy:
Rating Type: E RATING (HIGH PERFORMANCE)	Certification:	

General Performance Data : Curve 1: Zone 1

ENGINE SPEED RPM	ENGINE POWER BKW	ENGINE TORQUE N.M	ENGINE BMEP KPA	FUEL BSFC G/BKW-HR	FUEL RATE LPH	INTAKE MFLD TEMP DEG C	INTAKE MFLD P KPA	INTAKE AIR FLOW M3/MIN	EXH MFLD TEMP DEG C	EXH STACK TEMP DEG C	EXH GAS FLOW M3/MIN
1800	453.0	2,403	1,117	214.000	115.5	81.0	69.8	31.7	530.8	411.4	76.6
1700	429.9	2,415	1,122	215.000	110.4	81.1	61.4	28.6	541.8	423.3	70.7
1600	402.1	2,400	1,115	218.000	104.4	81.7	52.7	25.7	551.9	434.7	64.6
1500	371.4	2,365	1,099	222.000	98.2	82.0	44.5	22.9	559.9	444.0	58.6
1400	338.4	2,309	1,073	228.000	91.8	82.2	39.0	20.6	568.5	453.5	53.5
1300	303.9	2,233	1,038	234.000	84.7	82.1	32.7	18.2	571.0	457.7	47.9
1200	270.3	2,151	1,000	239.000	77.1	82.0	26.2	16.0	568.7	457.3	41.8
1100	245.5	2,132	991	242.000	70.8	82.3	22.7	14.4	562.2	452.0	37.7
1000	224.2	2,141	995	239.000	64.0	83.3	19.2	13.0	551.5	442.4	33.4

General Performance Data :Curve 2: Zone 1-2

ENGINE SPEED RPM	ENGINE POWER BKW	ENGINE TORQUE N.M	ENGINE BMEP KPA	FUEL BSFC G/BKW-HR	FUEL RATE LPH	INTAKE MFLD TEMP DEG C	INTAKE MFLD P KPA	INTAKE AIR FLOW M3/MIN	EXH MFLD TEMP DEG C	EXH STACK TEMP DEG C	EXH GAS FLOW M3/MIN
1800	537.4	2,851	1,325	211.000	135.2	81.0	94.2	36.0	556.4	423.1	88.6
1700	513.6	2,885	1,341	213.000	130.6	81.8	84.6	32.6	574.2	441.6	82.5
1600	478.6	2,857	1,328	217.000	123.5	82.6	73.2	29.0	591.5	459.9	75.7
1500	433.9	2,762	1,284	221.000	114.4	83.2	60.4	25.4	604.3	474.5	67.9
1400	369.3	2,519	1,171	228.000	100.2	82.7	46.5	21.8	599.8	476.7	58.3
1300	322.3	2,368	1,100	234.000	90.0	82.4	37.2	18.9	595.2	476.3	51.0
1200	284.9	2,267	1,054	240.000	81.7	82.3	29.7	16.5	592.4	476.1	44.3
1100	256.0	2,223	1,033	243.000	74.3	82.5	25.3	14.7	585.5	470.4	39.5
1000	231.0	2,206	1,025	242.000	66.6	83.2	21.0	13.1	573.0	459.0	34.6

General Performance Data :Curve 3: Zone 2-3

ENGINE SPEED RPM	ENGINE POWER BKW	ENGINE TORQUE N.M	ENGINE BMEP KPA	FUEL BSFC G/BKW-HR	FUEL RATE LPH	INTAKE MFLD TEMP DEG C	INTAKE MFLD P KPA	INTAKE AIR FLOW M3/MIN	EXH MFLD TEMP DEG C	EXH STACK TEMP DEG C	EXH GAS FLOW M3/MIN
2100	592.7	2,695	1,253	209.000	147.4	83.7	125.5	47.8	510.3	369.6	108.0
2000	575.3	2,747	1,277	209.000	143.6	83.0	114.9	43.9	523.5	386.2	101.3
1900	556.9	2,799	1,301	210.000	139.6	82.2	104.6	40.0	538.5	403.9	94.8
1800	537.4	2,851	1,325	212.000	135.5	81.0	94.3	36.0	556.4	423.1	88.6
1700	515.6	2,896	1,346	213.000	131.1	81.8	85.1	32.7	574.9	441.9	82.8
1600	492.1	2,937	1,365	216.000	126.9	82.8	76.9	29.6	597.1	463.2	77.6
1500	458.9	2,922	1,358	221.000	121.0	83.7	67.2	26.5	619.5	484.7	71.8
1400	404.3	2,758	1,282	228.000	109.8	83.3	55.8	23.3	630.7	500.6	64.0
1300	345.9	2,541	1,181	235.000	96.9	82.8	43.3	19.9	625.4	499.8	55.0
1200	302.6	2,408	1,119	242.000	87.1	82.6	34.3	17.1	620.9	498.8	47.6
1100	268.5	2,331	1,083	245.000	78.6	82.7	28.5	15.1	613.4	492.3	41.8
1000	239.1	2,283	1,061	245.000	69.9	83.2	23.2	13.3	600.0	479.9	36.2

General Performance Data :Maximum Limit

ENGINE SPEED RPM	ENGINE POWER BKW	ENGINE TORQUE N.M	ENGINE BMEP KPA	FUEL BSFC G/BKW-HR	FUEL RATE LPH	INTAKE MFLD TEMP DEG C	INTAKE MFLD P KPA	INTAKE AIR FLOW M3/MIN	EXH MFLD TEMP DEG C	EXH STACK TEMP DEG C	EXH GAS FLOW M3/MIN
2300	895.0	3,716	1,727	217.000	231.4	92.0	209.2	68.0	602.8	407.2	163.3
2200	838.3	3,639	1,691	212.000	211.7	91.7	195.3	62.9	579.7	396.2	148.6
2100	770.2	3,503	1,628	209.000	191.6	89.8	175.6	57.1	561.4	390.6	133.5
2000	739.6	3,531	1,641	207.000	182.5	87.3	160.9	52.2	563.9	399.3	123.9
1900	707.1	3,554	1,652	206.000	174.0	84.6	146.1	47.3	572.0	412.3	114.6
1800	677.2	3,592	1,670	207.000	167.0	81.8	132.1	42.6	587.3	430.8	106.3
1700	650.6	3,655	1,699	209.000	162.3	82.7	122.0	38.8	607.8	452.8	100.5
1600	622.8	3,717	1,728	214.000	158.8	83.4	113.6	35.5	638.2	483.4	96.0
1500	594.0	3,782	1,758	220.000	156.0	84.1	106.7	32.5	680.6	524.4	92.8
1400	476.9	3,253	1,512	227.000	129.2	84.4	76.2	26.4	685.4	542.7	76.2
1300	392.5	2,883	1,340	234.000	109.5	83.8	56.0	21.8	679.1	543.4	63.3
1200	335.0	2,666	1,239	240.000	95.8	83.0	40.5	18.1	654.5	526.0	52.0
1100	291.2	2,528	1,175	245.000	85.0	83.0	34.5	15.9	664.9	532.9	46.1
1000	247.7	2,365	1,099	249.000	73.4	83.0	25.6	13.6	630.0	503.0	37.9

General Performance Data :Prop Demand Curve P

ENGINE SPEED RPM	ENGINE POWER BKW	ENGINE TORQUE N.M	ENGINE BMEP KPA	FUEL BSFC G/BKW-HR	FUEL RATE LPH	INTAKE MFLD TEMP DEG C	INTAKE MFLD P KPA	INTAKE AIR FLOW M3/MIN	EXH MFLD TEMP DEG C	EXH STACK TEMP DEG C	EXH GAS FLOW M3/MIN
2300	895.0	3,716	1,727	217.000	231.4	92.0	209.2	68.0	602.8	407.2	163.3
2200	783.3	3,400	1,580	212.000	197.7	89.7	182.4	60.5	560.3	385.2	140.5
2100	681.2	3,098	1,440	209.000	170.1	86.5	151.4	52.7	534.9	378.7	121.0
2000	588.5	2,810	1,306	210.000	147.0	83.3	118.8	44.6	526.7	387.2	103.2
1900	504.5	2,536	1,179	212.000	127.3	81.6	89.0	37.2	525.4	399.0	87.3
1800	429.0	2,276	1,058	214.000	109.7	80.5	63.4	30.5	521.0	405.3	73.2
1700	361.4	2,030	944	218.000	93.8	80.2	45.0	25.8	504.2	397.7	61.2
1600	301.3	1,798	836	221.000	79.5	80.5	32.1	22.2	478.6	382.0	51.5
1500	248.3	1,580	735	226.000	66.9	80.7	22.7	19.4	445.3	358.9	43.4
1400	201.8	1,377	640	233.000	56.0	80.2	15.7	17.2	410.5	333.0	37.0
1300	161.6	1,187	552	241.000	46.3	79.8	10.5	15.3	373.9	305.9	31.4
1200	127.1	1,012	470	248.000	37.7	79.4	6.5	13.7	338.2	279.3	26.7
1100	97.9	850	395	255.000	29.8	78.7	3.3	12.3	296.1	244.2	22.4
1000	73.6	702	326	259.000	22.7	77.8	0.8	11.0	254.4	207.4	18.5

Engine Heat Rejection Data :Maximum Limit

ENGINE SPEED RPM	ENGINE POWER BKW	REJ TO JW KW	REJ TO ATMOS KW	REJ TO EXHAUST KW	EXH RCOV TO 177C KW	FROM OIL CLR KW	FROM AFT CLR KW	WORK ENERGY KW	LHV ENERGY KW	HHV ENERGY KW
2300	895.0	826.0	67.0	684.0	325.0	124.0	129.0	895.0	2,321.0	2,472.0
2200	838.3	747.0	64.0	591.0	272.0	112.0	106.0	838.0	2,102.0	2,240.0
2100	770.2	688.0	61.0	549.0	250.0	103.0	85.0	770.0	1,942.0	2,068.0
2000	739.6	649.0	58.0	505.0	232.0	98.0	71.0	740.0	1,832.0	1,952.0
1900	707.1	619.0	55.0	480.0	225.0	93.0	58.0	707.0	1,747.0	1,861.0
1800	677.2	597.0	52.0	466.0	226.0	90.0	48.0	677.0	1,682.0	1,792.0
1700	650.6	583.0	49.0	466.0	234.0	87.0	39.0	651.0	1,641.0	1,748.0
1600	622.8	570.0	46.0	467.0	245.0	85.0	32.0	623.0	1,602.0	1,706.0
1500	594.0	541.0	44.0	440.0	240.0	81.0	27.0	594.0	1,520.0	1,619.0
1400	476.9	474.0	40.0	432.0	246.0	71.0	12.0	477.0	1,336.0	1,424.0
1300	392.5	404.0	38.0	384.0	221.0	61.0	4.0	392.0	1,143.0	1,218.0
1200	335.0	349.0	34.0	337.0	192.0	53.0	-1.0	335.0	991.0	1,056.0
1100	291.2	305.0	32.0	298.0	171.0	46.0	-3.0	291.0	869.0	926.0
1000	247.7	265.0	28.0	265.0	148.0	40.0	-5.0	248.0	757.0	806.0

EXHAUST Sound Data: 1.5 METERS

ENGINE SPEED RPM	ENGINE POWER BKW	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2300	895.0	112	102	111	110	112	103	102	100	91
2200	783.3	111	101	110	109	111	102	101	99	90
2100	681.2	110	101	110	109	111	102	101	99	90
2000	588.5	110	100	109	108	110	101	100	98	89
1900	504.5	110	99	109	110	109	102	100	98	89
1800	429.0	109	99	109	109	109	102	99	98	88
1700	361.4	109	98	108	109	108	101	99	98	88
1600	301.3	109	105	103	107	108	103	100	97	89
1500	248.3	108	104	102	106	107	102	99	96	88
1400	201.8	107	103	101	105	106	101	98	95	87
1300	161.6	106	102	100	104	105	100	97	94	86
1200	127.1	105	101	99	103	104	99	96	93	85
1100	97.9	104	100	98	102	103	98	95	92	84
1000	73.6	104	100	98	102	103	98	95	92	84

EXHAUST Sound Data: 7.0 METERS

ENGINE SPEED RPM	ENGINE POWER BKW	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2300	895.0	98	90	105	99	97	89	88	90	77
2200	783.3	98	89	104	98	96	88	87	89	76
2100	681.2	97	88	103	97	95	87	86	88	75
2000	588.5	97	88	103	97	95	87	86	88	75
1900	504.5	96	90	99	94	94	89	88	88	80
1800	429.0	96	89	99	94	94	88	87	87	80
1700	361.4	96	89	99	94	93	88	87	87	79
1600	301.3	95	93	90	92	92	89	86	87	79
1500	248.3	95	93	90	92	92	89	86	87	79
1400	201.8	93	92	89	91	91	88	85	86	78
1300	161.6	92	91	88	90	90	87	84	85	77
1200	127.1	92	90	87	89	89	86	83	84	76
1100	97.9	91	89	86	88	88	85	82	83	75
1000	73.6	90	88	85	87	87	84	81	82	74

EXHAUST Sound Data: 15.0 METERS

ENGINE SPEED RPM	ENGINE POWER BKW	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2300	895.0	92	83	98	92	90	82	81	83	70
2200	783.3	91	83	98	92	90	82	81	83	69
2100	681.2	90	82	97	91	89	81	80	82	69
2000	588.5	90	81	96	90	88	80	79	81	68
1900	504.5	90	83	93	88	88	82	81	81	73
1800	429.0	89	83	92	87	87	82	81	81	73
1700	361.4	89	83	92	87	87	82	81	81	73
1600	301.3	89	87	84	86	86	83	80	81	73
1500	248.3	88	87	84	86	86	83	80	81	73
1400	201.8	87	85	82	84	84	81	78	79	71
1300	161.6	86	84	81	83	83	80	77	78	70
1200	127.1	85	83	80	82	82	79	76	77	69
1100	97.9	84	82	79	81	81	78	75	76	68
1000	73.6	84	82	79	81	81	78	75	76	68

MECHANICAL Sound Data: 1.0 METERS

ENGINE SPEED RPM	ENGINE POWER BKW	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2300	895.0	105	95	99	100	101	100	99	93	85
2200	783.3	105	95	99	100	101	100	99	93	85
2100	681.2	104	94	98	99	100	99	98	92	84
2000	588.5	104	94	98	99	100	99	98	92	84
1900	504.5	103	93	97	98	100	99	98	82	75
1800	429.0	103	92	96	97	99	98	97	81	74
1700	361.4	102	92	96	97	99	98	97	81	74
1600	301.3	102	96	91	92	94	98	97	91	80
1500	248.3	102	96	91	92	94	98	97	91	79
1400	201.8	101	95	90	91	93	97	96	90	79
1300	161.6	101	95	90	91	93	97	96	90	79
1200	127.1	100	94	89	90	92	96	95	89	78
1100	97.9	100	94	89	90	92	96	95	89	78
1000	73.6	99	93	88	89	91	95	94	88	77

MECHANICAL Sound Data: 7.0 METERS

ENGINE SPEED RPM	ENGINE POWER BKW	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCJ 8000HZ DB
2300	895.0	93	88	87	87	87	89	88	81	71
2200	783.3	93	87	86	86	86	88	87	80	70
2100	681.2	92	87	86	86	86	88	87	80	70
2000	588.5	92	87	86	86	86	88	87	80	70
1900	504.5	91	84	83	84	85	86	86	79	69
1800	429.0	91	84	83	84	85	86	86	79	69
1700	361.4	90	84	83	84	85	86	86	79	69
1600	301.3	90	87	84	82	81	86	85	77	67
1500	248.3	90	87	84	82	81	86	85	77	67
1400	201.8	89	86	83	81	80	85	84	76	66
1300	161.6	89	86	83	81	80	85	84	76	66
1200	127.1	88	85	82	80	79	84	83	75	65
1100	97.9	88	85	82	80	79	84	83	75	65
1000	73.6	87	84	81	79	78	83	82	74	64

MECHANICAL Sound Data: 15.0 METERS

ENGINE SPEED RPM	ENGINE POWER BKW	OVERALL SOUND DB(A)	OBCF 63HZ DB	OBCF 125HZ DB	OBCF 250HZ DB	OBCF 500HZ DB	OBCF 1000HZ DB	OBCF 2000HZ DB	OBCF 4000HZ DB	OBCF 8000HZ DB
2300	895.0	87	83	82	85	83	81	81	75	65
2200	783.3	87	83	82	85	83	81	81	75	65
2100	681.2	86	82	81	84	82	80	80	74	64
2000	588.5	86	82	81	84	82	80	80	74	64
1900	504.5	85	81	80	83	82	80	79	74	62
1800	429.0	85	81	80	83	82	80	79	74	62
1700	361.4	84	80	79	82	81	79	78	73	61
1600	301.3	84	82	82	80	79	80	77	73	61
1500	248.3	84	82	82	80	79	80	77	73	61
1400	201.8	83	81	81	79	78	79	76	72	60
1300	161.6	83	81	81	79	78	79	76	72	60
1200	127.1	82	80	80	78	77	78	75	71	59
1100	97.9	82	80	80	78	77	78	75	71	59
1000	73.6	81	79	79	77	76	77	74	70	58

EMISSIONS DATA

Certification:

To properly apply this data you must refer to performance parameter DM1176 for additional information...

REFERENCE EXHAUST STACK DIAMETER	203 MM
WET EXHAUST MASS	5,010.0 KG/HR
WET EXHAUST FLOW (407.00 C STACK TEMP)	163.40 M3/MIN
WET EXHAUST FLOW RATE (0 DEG C AND 101.2 KPA)	65.59 M3/MIN
DRY EXHAUST FLOW RATE (0 DEG C AND 101.2 KPA)	59.08 M3/MIN
FUEL FLOW RATE	230 L/HR

Altitude Capability Data(Corrected Power Altitude Capability)

Ambient Operating Temp.	10 C	20 C	30 C	40 C	50 C	NORMAL
Altitude						
0 M	895 kw	895 kw	895 kw	895 kw	895 kw	895 kw
300 M	895 kw	895 kw	895 kw	895 kw	895 kw	895 kw
500 M	895 kw	895 kw	895 kw	895 kw	890 kw	895 kw
1,000 M	895 kw	895 kw	893 kw	865 kw	838 kw	895 kw
1,500 M	900 kw	869 kw	841 kw	814 kw	788 kw	867 kw
2,000 M	846 kw	817 kw	790 kw	765 kw	741 kw	825 kw
2,500 M	795 kw	768 kw	742 kw	719 kw	696 kw	783 kw
3,000 M	746 kw	721 kw	697 kw	675 kw	654 kw	744 kw
3,200 M	728 kw	703 kw	680 kw	658 kw	637 kw	729 kw

The powers listed above and all the Powers displayed are Corrected Powers

Identification Reference and Notes

Engine Arrangement:	1326105	Lube Oil Press @ Rated Spd(KPA):	437.0
Effective Serial No:	3JK00574	Piston Speed @ Rated Eng SPD(M/Sec):	11.1
Primary Engine Test Spec:	2T4695	Max Operating Altitude(M):	1,175.0
Performance Parm Ref:	TM0015	PEEC Elect Control Module Ref	
Performance Data Ref:	TM9439	PEEC Personality Cont Mod Ref	131-4874
Aux Coolant Pump Perf Ref:			
Cooling System Perf Ref:		Turbocharger Model	S4DW030-0.94
Certification Ref:		Fuel Injector	1301804
Certification Year:		Timing-Static (DEG):	19.50
Compression Ratio:	14.2	Timing-Static Advance (DEG):	8.90
Combustion System:	DI	Timing-Static (MM):	405.06
Aftercooler Temperature (C):	--	Unit Injector Timing (MM):	--
Crankcase Blowby Rate(M3/H):	--	Torque Rise (percent)	--
Fuel Rate (Rated RPM) No Load(L/HR):	--	Peak Torque Speed RPM	--
Lube Oil Press @ Low Idle Spd(KPA):	364.0	Peak Torque (NM):	--

**Reference
Number: TM9439**

THIS DATA CURVE IS ALSO APPLICABLE TO THE FOLLOWING
BASIC ENGINE ARRANGEMENTS:
132-6109 WITH 2T4695;
132-6106 AND 132-6110 WITH 2T7260.

**Parameters
Reference: TM0015**

MARINE PROP - ALL EXCEPT 3600

LIMIT DEFINITIONS FOR USE WITH A, B AND C RATED ENGINES:

ZONE 1 - FOR CONTINUOUS OPERATION, INCLUDING DREDGE ENGINES,
WITHOUT INTERRUPTION OR LOAD CYCLING ON OR UNDER CURVE 1.

ZONE 1-2 - OPERATION LIMITED TO 4 HOUR PERIOD AT FULL POWER
FOLLOWED BY A 1 HOUR PERIOD ON OR UNDER CURVE 1.

ZONE 2-3 - OPERATION LIMITED TO 1 HOUR PERIOD AT FULL POWER
FOLLOWED BY A 1 HOUR PERIOD ON OR UNDER CURVE 1.

MAX LIMIT CURVE - OPERATION LIMITED TO 5 MINUTE PERIOD AT FULL
POWER FOLLOWED BY A 2 HOUR PERIOD ON OR UNDER CURVE 1.

CURVE P - POWER CURVE P REPRESENTS THE POWER DEMAND OF A
TYPICAL FIXED PITCH PROPELLER, SHAFT POWER MAY BE ASSUMED TO
BE 97 PERCENT OF THE BRAKE ENGINE POWER SHOWN.

MAX POWER DATA CURVE M - MAXIMUM POWER ENGINE IS CAPABLE OF
PRODUCING.

TOLERANCES:

Power	+/- 3%
Exhaust stack temperature	+/- 8%
Inlet airflow	+/- 5%
Intake manifold pressure-gage	+/- 10%
Exhaust flow	+/- 6%
Specific fuel consumption	+/- 3%
Fuel rate	+/- 5%
Heat rejection	+/- 5%

CONDITIONS:

ENGINE PERFORMANCE IS CORRECTED TO INLET AIR STANDARD CONDITIONS OF
99 KPA (29.31 IN HG) DRY BAROMETER AND 25 DEG C (77 DEG F). THESE
VALUES CORRESPOND TO THE STANDARD ATMOSPHERIC PRESSURE AND
TEMPERATURE AS SHOWN IN SAE J1228. ALSO INCLUDED IS A CORRECTION
TO STANDARD FUEL GRAVITY OF 35 DEGREES API HAVING A LOWER HEATING
VALUE OF 42,780 KJ/KG (18,390 BTU/LB) WHEN USED AT 29 DEG C
(84.2 DEG F) WHERE THE DENSITY IS 838.9 G/L (7.002 LB/GAL).

THE CORRECTED PERFORMANCE VALUES SHOWN FOR CATERPILLAR ENGINES
WILL APPROXIMATE THE VALUES OBTAINED WHEN THE OBSERVED PERFORMANCE
DATA IS CORRECTED TO SAE J1228, ISO 3046-2 & 8665 & 2288 & 9249 &
1585, EEC 80/1269 AND DIN 70020 STANDARD REFERENCE CONDITIONS.

ENGINES ARE EQUIPPED WITH STANDARD ACCESSORIES; LUBE OIL, FUEL
PUMP AND JACKET WATER PUMP. THE POWER REQUIRED TO DRIVE
AUXILIARIES MUST BE DEDUCTED FROM THE GROSS OUTPUT TO ARRIVE AT

THE NET POWER AVAILABLE FOR THE EXTERNAL (FLYWHEEL) LOAD. TYPICAL AUXILIARIES INCLUDE COOLING FANS, AIR COMPRESSORS AND CHARGING ALTERNATORS.

RATINGS MUST BE REDUCED TO COMPENSATE FOR ALTITUDE AND/OR AMBIENT TEMPERATURE CONDITIONS ACCORDING TO THE APPLICABLE DATA SHOWN ON THE PERFORMANCE DATA SET.

ALTITUDE:

ALTITUDE CAPABILITY - THE RECOMMENDED REDUCED POWER VALUES FOR SUSTAINED ENGINE OPERATION AT SPECIFIC ALTITUDE LEVELS AND AMBIENT TEMPERATURES.

COLUMN "N" DATA - THE FLYWHEEL POWER OUTPUT AT NORMAL AMBIENT TEMPERATURE.

AMBIENT TEMPERATURE - TO BE MEASURED AT THE AIR CLEANER AIR INLET DURING NORMAL ENGINE OPERATION.

NORMAL TEMPERATURE - THE NORMAL TEMPERATURE AT VARIOUS SPECIFIC ALTITUDE LEVELS FOUND ON TM2001.

SOUND DEFINITIONS:

Sound Power : [DM8702](#)

Sound Pressure : [TM7080](#)

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