ENGINE TEST

MARCH 14, 2024

For Help Desk Phone Numbers Click here

Built Date: 01Nov1999 Sales Model: 3516 Tested: B Plant: Lafayette TMI Load Date: 02Nov1999

Tested Date: 02Nov1999

Cell Number: 510 Shipped Date: 24Nov1999

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Test Element	Eng Updates	Test Value	Test Spec Value	Measure
Spec Number		2T5634	2T5634	
Arrangement Number	er a transport (April 1997) e en e	4P8336	4P8336	- Desir September All Controller I - Responsement September 1-2 (1998) - Teller (1998) - Telle
CORR FL PWR		1,086	1,085	HP
Speed		1,201	1,200	RPM
CORR FL FUEL RATE		128,099.2	126,770.5	BTU/MIN
CSFC		7,079	7,011	BTU/HP-H
Jacket Water Temp		192	192	
IN SCAC H2O		126	129	- n
Compressor Out Pressure		33.79	33.07	PSIA
Inlet Manifold Pressure		30.46	30.31	PSIA
Excess Oxygen		8.8	8.2	%
NOx Level			310	PPM
FL Oil Press		61	60	PS!
High Speed		1,201	1,200	RPM
Diff Fuel Pressure High		0.10	0.12	PSI
Low Idle Speed		898	900	RPM
Low Idle Oil Pressure		61	60	PSI
Fuel Pressure		18		PSIA
Timing RTDC			22.00	DEG

Advertised Power 1,085	š
Advertised Speed	5

Previous

Next

Showing 1 to 19 of 19 entries

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ORDER INVOICE WITH ENGINEERING BREAKDOWN

Ма**ксн 14, 202**4

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A.Caution Ordering Parts from TMI Order Invoice with Engineering Breakdown

Order Invoice with Engineering Breakdown information is provided by the orders system, once you click breakdown of a part, TMI pulls the information from the Engineering Data System (EDS).

EDS is not a manufacturing bill of material system but a engineering part in effect system. TMI uses the built date and calls EDS to pull the part in effect at that time.

Recently, TMI added an as manufactured tab. This tab provides the consist as reported from the engine factory. This data is limited but growing for new manufactured enter "AT400559"

As-Manufactured tab is refreshed with correct data. The history records as well as the current data with wrong details are deleted. From 28th march 2019, TMI is maintaining only current data which possesses correct details.

To validate you are ordering a correct part, TMI encourages you to contact Morton Parts. 800-566-7782 or https://pscrmwebforms.cat.com/GDSNquickentry.aspx

The below option will email full breakdown of the serial number

		Excel O PDF		
		FullBreakDown		
Sales Model: 3516 SITA	Invoice Number:	Dealer: B293	S.O. Number:	Invoice Date: 1999-11-29
Part Numbers				

Help

Part Numbers Top

59 results found, displaying 1 to 59	splaying 1 t	to 59						
Reference Number	Eng Chg	Quantity	ASM	LESS®	ASM LESS® Set Type	Description	Reference Drawing	SIS Part Diagram 🕲
PA4873	11	щ				G3516 LE GEN SET ENGINE	<u>Drawing</u>	
- 4P8336	80	<u>н</u>	н			G3516 SITA LE EIS ENGINE AR		View Diagram
- 5P2506	00	⊢				LITERATURE GP - ENGLISH	<u>Drawing</u>	View Diagram
- 8N9639	04	ш	H			GUARD GP-DAMPER		View Diagram
- 1079020	02	L	щ			GAGE AS - SERVICE METER		<u>View Diagram</u>
- 1079022	03	1 -	н			PYROMETER AND THERMOCOUPLES		View Diagram
- 1079023	01	⊢ -	H			ENGINE OIL PRESSURE GAUGE		<u>View Diagram</u>
- 1079024	01	1-4	m			ENGINE WATER TEMPERATURE GAUGE		View Diagram

- 2T5634	LL9213	5N9606	0P8707	0P9715	970851	8Q9795	1353393	7W6555	1502535	1390377	1665168	o/regar	1665176	1729406	- 1315457	- 1036193	LA1461	- 7E9202	- 4P9597	- 4P9596	- 4P9091	- 4P9090	- 4P9088	LA0040	- 1348621	- 7C0527	LA3173	3L0467	1046203	1665183	5N8877	7W0825	7L7872	3N7056	- 1097034	- 7E6247	- 6I1044	- 6I1043	LA1110	8N8510	1106206	5N4659	- 7X2425	LA1170	978179	- 2W5616	- 1180474	- 1083921	- 976496	- 1079026	- 1079025	3/14/24, 10:23 AM
34 00	00				00	00	04	01	00	02	00	8 6	9 6										8 02	00	21 00		00		05	00	04	01	80	00					00	07	00			00	02	6 04	4 04	1 02			5 01	
1	Н	ц	н	σ	L	1	Д	, μ.	J -4	. µ		· j-	-	→ 1	<u>→</u> 1	-	₽	μ.	H	Ľ	ц	 -	۲	Н	J mil	۲	щ	1-4	ř	<u>г</u>	ь	<u>ш</u>	۲	,	Ľ	 - -4	Ľ	1	1	⊢	1	Ľ	<u>_</u>	J -44	,	Ь	ц	_	 4	-	,	
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					_																																															
809 KW @ 1200 RPM (1085 BHP)	1084 BHP 761 GEN KW WOF 60 HZ	VOLTAGE INDICATOR 13200V, 60HZ	QUOTE NO.	EXTRA LITERATURE - ENGLISH	RAIL GROUP - ENGINE SUPPORT	PACKAGING AR.	REGULATOR AS VOLTAGE	THERMOSTATIC VALVE	RAIL GP - ENGINE SUPPORT	RANGECKMER GT - CCCI	BOX GF - EXIENDION	BOY OF BYTENOTON	BOX GP - BASIC	GENERATOR GROUP	701A DUAL GAIN GOVERNOR	PANEL AS - CONTROL	701A DUAL GAIN GOVERNOR	THROTTLE GP	INDICATOR GP	VALVE GP - SOLENOID	CARBURETOR GP	REGULATOR GP	CLEANER GP - AIR	LOW PRESSURE GAS CONVERSION	SWITCH GP - MAGNETIC - DUAL	ELECTRIC STARTING MOTOR LH	ELECTRIC STARTING MOTOR LH		INSTALLATION AR	CONNECTION GP - TERMINAL ST	VIBRATION ISOLATORS	BATTERY CABLES	24 VOLT BATTERY SET - DRY	BATTERY RACK	LOW WATER TEMPERATURE SWITCH	JACKET WATER HEATER	MOUNTING GP - JACKET WATER HTR	MOUNTING GP - JACKET WATER HTR	JACKET WATER HEATER - DUAL	EXPLOSION RELIEF VALVE	OIL PAN DRAIN VALVE	OIL LEVEL REGULATOR	OIL - BULK - 1 LITER	LUBRICATING OIL	INLET/OUTLET CONNECTION	OIL PAN DRAIN COVER	HARNESS INTERCONNECT AS.	MANIFOLD AIR TEMPERATURE GAUGE		OIL FILTER DIFF PRESSURE GAUGE	MANIFOLD PRESSURE GAUGE	Order Invoice with Engineering breakdown
								<u>Drawing</u>									<u>Drawing</u>							<u>Drawing</u>		<u>Drawing</u>													<u>Drawing</u>	<u>Drawing</u>	<u>Drawing</u>	<u>Drawing</u>			<u>Drawing</u>	<u>Drawing</u>						
View Diagram		<u>View Diagram</u>	<u>View Diagram</u>	<u>View Diagram</u>	view Diagram	View Diagram	View Diagram	View Diagram	View Diagram	View Diagram	View Diagram	View Diagram	View Diagram	View Diagram	View Diagram	<u>View Diagram</u>		<u>View Diagram</u>	View Diagram	<u>View Diagram</u>	View Diagram	<u>View Diagram</u>	View Diagram		View <u>Diagram</u>	View Diagram		<u>View Diagram</u>	<u>View Diagram</u>	View Diagram	View Diagram	<u>View Diagram</u>	<u>View Diagram</u>	View <u>Diagram</u>	View Diagram	View Diagram	View Diagram	<u>View Diagram</u>		View Diagram	View Diagram	View Diagram	<u>View Diagram</u>		<u>View Diagram</u>	View Diagram	View Diagrain	View Diagram	<u>View Diagram</u>	<u>View Diagram</u>	View Diagram	

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GEN SET PERFORMANCE DATA

Performance Number: DM5149

MARCH 14, 2024

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Change Level: 01 <

Sales Model: 3516 SITA Combustion: SI

Engine Power:

765 W/O F EKW

1,085 HP

Turbo Quantity: Manifold Type: ASWC

Fuel: NAT GAS

Hertz: 60

Cam Type: STD

CARB: IMPCO

Rating Type: CONT-LP GAS

IGN: EIS

Speed: 1,200 RPM Governor Type:

Application Type: EPG-CONT Engine App: GS

JW Temp (F): 210 Fuel Press (PSI): 1.5

Certification:

C/R: 11.0:1

After Cooler: SCAC

Aspr: TA

After Cooler Temp(F): 129

Engine Rating: GS Turbo Arrangement:

Strategy:

NOx Level: 2 g/bhp-hr

ELEK A/F CONT: NO

General Performance Data

			а Дар
382.5	573.8	765	GEN PWR EKW
50	75	100	PERCENT LOAD
542	814	1085	ENGINE POWER BHP
84.99	127.49	169.99	ENGINE F
7,817.06	7,173.89	6,997.19	UEL BSFC BTU- BHP/HR
4,688.03	6,450.94	8,388.3	FUEL RATE CFH
137.3	139.1	142.7	INTAKE MFLD TEMP DEG F
30.64	42.82	58.51	MFLD P IN- HG
1,041.78	1,518.53	2,175.39	INTAKE AIR FLOW CFM
	1,068.8		EXH MFLD TEMP DEG F
813.2	811.4	780.8	EXH STACK TEMP DEG F
2,705.11		5,459.65	EXH GAS FLOW CFM

General Performance Data 2

ENGINE SPEED RPM	1,200	1,200	1,200
PERCENT LOAD	157	157	157
ENGINE POWER BHP	1085	814	542
VE COMPRESS CO	37.63	27.77	14.22
COMPRESS OUT TEMP DEG F	272.3	226.58	165.92

Performance Data

Engine Heat Rejection Data

GEN PWR EKW 765	GEN PWR EKW 765	GEN PWR EKW 765	GEN PWR EKW 765	GEN PWR EKW 765	GEN PWR EKW 765	GEN PWR EKW 765 573.8 382.5
PERCENT LOAD	PERCENT LOAD	PERCENT LOAD	PERCENT LOAD	PERCENT LOAD	PERCENT LOAD	PERCENT LOAD 100 75
OVERALL SOUND DB(A)	OVERALL SOUND DB(A) 87	OVERALL SOUND DB(A)	OVERALL (SOUND DB(A)	OVERALL (SOUND DB(A)	OVERALL (SOUND DB(A)	REJ TO JW BTU/MN 36,510.5 31,733.4 26,899.4
ME(OBCF 63HZ C DB 81	MECOBCF 63HZ COBCF 63HZ COB	ME OBCF 63HZ O DB	E) OBCF 63HZ O DB 83	E) OBCF 63HZ O DB 89	E OBCF 63HZ O DB	REJ TO ATMOS BTU/MN 5 4,549.6 1 3,810.3 1 3,014.1
MECHANICAL Sound Data: 49.21 FEE Z OBCF 125HZ OBCF 250HZ OBCF 500HZ DB DB DB 81 77 71 72	MECHANICAL Sound Data: 22.97 z obcf 125Hz obcf 250Hz obcf 50	MECHANICAL Sound Data: 3.28 FEET OBCF 125HZ OBCF 250HZ OBCF 500HZ DB DB DB OB S7	EXHAUST Sound Data: 49.21 FEET OBCF 125HZ OBCF 250HZ OBCF 500HZ DB DB DB 85 87 83	EXHAUST Sound Data: 22.97 FEET OBCF 125HZ OBCF 250HZ OBCF 500HZ DB DB DB 92 93 90	EXHAUST Sound Data: 4.92 FEET OBCF 125HZ OBCF 250HZ OBCF 500HZ DB DB DB 104 106 107	
Sound Data: OBCF 250HZ ODB DB 71	Sound Data: OBCF 250HZ O DB 77	Sound Data: OBCF 250HZ ODB B8	ound Data: 49 OBCF 250HZ O DB 87	ound Data: 22 OBCF 250HZ ODB DB 93	Sound Data: 4. OBCF 250HZ OI DB	REJ TO EXH RCOV TO EXHAUST BTU/MN BTU/MN BTU/MN 33,837.6 23,714.74 24,454.1 17,686.53 16,947.2 12,283.89
	FEET)OHZ		•		(0	FRO CLR I
OBCF 1000HZ DB 75	OBCF 1000HZ DB	OBCF 1000HZ DB 90	OBCF 1000HZ DB 85	OBCF 1000HZ DB 92	OBCF 1000HZ DB 103	2 8 BE
OBCF 2000HZ DB 77	OBCF 2000HZ DB 82	ОВСF 2000HZ DB 92	OBCF 2000HZ DB 85	ОВСF 2000НZ DB 92	овсғ 2000НZ DB 105	WORK LHV ENERGY E BTU/MN 46,007.7 34,508.6 23,003.9
ОВСF 4000HZ DB 73	OBCF 4000HZ DB 79	OBCF 4000HZ DB 88	OBCF 4000HZ DB	OBCF 4000HZ DB 92	OBCF 4000HZ DB 107	LHV ENERGY H BTU/MN 126,478.6 97,247.5 70,689.3
OBCF 8000HZ DB	OBCJ 8000HZ DB 70	OBCF 8000HZ DB 80	OBCF 8000HZ DB 79	OBCF 8000HZ DB 85	OBCF 8000HZ DB 100	HHV ENERGY BTU/MN 140,639.2 108,166.5 78,594.2

Certification:

EMISSIONS DATA

28.43 INCHES HG AND FUEL HAVING A LHV OF 911 BTU PER CUBIC FOOT AT 30.00 PROCEDURES ARE VERY SIMILAR TO THE METHODS DESCRIBED IN EPA CFR 40 PART 60 EMISSIONS DATA MEASUREMENT IS CONSISTENT WITH THOSE DESCRIBED IN EPA CFR 40 30.00 INCHES HG ABSOLUTE AND 32 DEG F. INCHES HG ABSOLUTE AND 32 DEG F. FUEL RATE IS BASED ON A STANDARD CUBIC FOOT AT DATA SHOWN IS BASED ON STEADY STATE ENGINE OPERATING CONDITIONS OF 77 DEG F, APPENDIX A METHOD 25A FOR HYDROCARBONS, METHOD 10 FOR CO, METHOD 7E FOR NOX. PART 89 SUBPART D & E AND ISO 8178-1 FOR MEASURING HC, CO, CO2 AND NOX. THESE

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

FUEL FLOW RATE	DRY EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG)	WET EXHAUST FLOW RATE (32 DEG F AND 29.98 IN HG)	WET EXHAUST FLOW (780.80 F STACK TEMP)	WET EXHAUST MASS	REFERENCE EXHAUST STACK DIAMETER
140 CFM	1,857.55 STD CFM	2,028.00 STD CFM	5,459.65 CFM	10,002.4 LB/HR	1

EKW	PERCENT LOAD	ENGINE POWER BHP	TOTAL NOX (AS NO2) LB/HR	TOTAL CO LB/HR	TOTAL HC LB/HR	NON- METH HC LB/HR	OXYGEN IN EXHAUST PERCENT	LAMBDA
765	100	1085	4.7100	3.3500	9.110	1.37	8.7000	
573.8	75	814	9.9700	2.6500	5.190	0.78	7.2500	1.49
382.5		542	9.7200	1.8100	3.660	0.55	6.1000	

Altitude Capability Data(Corrected Power Altitude Capability)

5,741,47 FT	4,921.26 FT	4,101.05 FT	3,280.84 FT	2,460.63 FT	1,640.42 FT	820.21 FT	0 FT	Ambient Operating Temp. Altitude
1,012.47 hp	1,043.31 hp	1,076.84 hp	1,084.89 hp	50 F				
977.6 hp	1,008.45 hp	1,039.29 hp	1,071.47 hp	1,084.89 hp	1,084.89 hp	1,084.89 hp	1,084.89 hp	68 F
945.42 hp	974.92 lp	1,005.77 hp	1,036.61 hp	1,068.79 hp	1,084.89 hp	1,084.89 hp	1,084.89 hp	86 F
915.92 hp	944.08 hp	973.58 hp	1,003.08 hp	1,033.93 hp	1,066.11 hp	1,084.89 hp	1,084.89 hp	104 F
886.41 hp	914.58 hp	942.74 hp	972.24 hp	1,001.74 hp	1,032.59 hp	1,064.77 hp	1,084.89 hp	122 F
886.41 hp	914.58 hp	942.74 hp	972.24 hp	1,001.74 hp	1,032.59 hp	1,064.77 hp	1,084.89 hp	NORMAL

3/14/24, 10:23 AM Performance Data

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

Performance Data Ref: DM5149 PEEC Personality Cont Mod Ref	Performance Parm Ref: TM0001 PEEC Elect Control Module Ref	Primary Engine Test Spec: Max Operating Altitude(FT):	Effective Serial No: 4EK00001 Piston Speed @ Rated Eng SPD(FT/Min):	Engine Arrangement: Lube Oil Press @ Rated Spd(PSI):	Identification Reference and Notes
ont Mod Ref	Module Ref	ude(FT): 2,493.4	d Eng SPD(FT/Min):	ited Spd(PSI):	3

Lube Oil Press @ Low Idle Spd(PSI):	Fuel Rate (Rated RPM) No Load(Gal/HR):	Crankcase Blowby Rate(CFH):	Aftercooler Temperature (F):	Combustion System:	Compression Ratio:	Certification Year:	Certification Ref:	Cooling System Perf Ref:	Aux Coolant Pump Perf Ref:
1	!	1	129	SI	11.0				
Peak Torque (LB.FT):	Peak Torque Speed RPM	Torque Rise (percent)	Unit Injector Timing (MM):	Timing-Static (MM):	Timing-Static Advance (DEG):	Timing-Static (DEG):	Fuel Injector	Turbocharger Model	
1 1	I	ı	1	1	1	ł		UTW8329-1.37	

Reference Number: DM5149

Parameters Reference: TM0001

GAS ENGINE PERFORMANCE

TOLERANCES:

V V

AMBIENT AIR CONDITIONS AND FUEL USED WILL AFFECT THESE VALUES. EACH OF THE VALUES MAY VARY IN ACCORDANCE WITH THE FOLLOWING TOLERANCES:

POWER +/- 3%

EXHAUST STACK TEMPERATURE +/- 8%

INLET AIR FLOW +/- 5%

INTAKE MANIFOLD ABSOLUTE PRESSURE - NA +/- 5%

INTAKE MANIFOLD ABSOLUTE PRESSURE - TA +/- 5%

INTAKE MANIFOLD TEMPERATURE +/- 5 DEG C

EXHAUST GAS FLOW +/- 6%

SPECIFIC FUEL CONSUMPTION +/- 5%

FUEL RATE +/- 5%

CONDITIONS:

POWER FOR GAS ENGINES IS BASED ON FUEL HAVING A LHV OF 33.74 KJ/L (905 BTU/CU FT) AT 101 KPA (29.91 IN HG) AND 15 DEG C (59 DEG F). FUEL RATE IS BASED ON A CUBIC METER AT 100 KPA (29.61 IN HG) AND 15.6 DEG C (60.1 DEG F). AIR FLOW IS BASED ON A CUBIC FOOT AT 100 KPA (29.61 IN HG) AND 25 DEG C (77 DEG F). EXHAUST FLOW IS BASED ON A CUBIC FOOT AT 100 KPA (29.61 IN HG) AND STACK TEMPERATURE.

ENGINE PERFORMANCE IS OBTAINED IN ACCORDANCE WITH SAE J1995, ISO 3046/1, BS5514/1 AND DIN 6271/1 STANDARDS.

TRANSIENT RESPONSE DATA IS ACQUIRED FROM AN ENGINE/GENERATOR

COMBINATION AT NORMAL OPERATING TEMPERATURE AND IN ACCORDANCE WITH ISO 3046/1 STANDARD AMBIENT CONDITIONS. ALSO IN ACCORDANCE WITH SAE J1995, BS5514/1 AND DIN 6271/1 STANDARD REFERENCE CONDITIONS.

ENGINES ARE EQUIPPED WITH STANDARD ACCESSORIES; LUBE OIL PUMP, JACKET WATER PUMP, SEPARATE CIRCUIT AFTERCOOLER WATER PUMP AND MAGNETO (EXCEPT EIS). POWER REQUIRED TO DRIVE AUXILIARIES MUST BE DEDUCTED FROM THE GROSS OUTPUT TO ARRIVE AT THE NET POWER AVAILABLE FOR THE EXTERNAL (FLYWHEEL OR GENERATOR) 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.

DEFINITIONS:

INDUSTRIAL CONTINUOUS - THE POWER AND SPEED CAPABILITY OF THE ENGINE WHICH CAN BE USED WITHOUT INTERRUPTION OR LOAD CYCLING.

GENERATOR SET CONTINUOUS - OUTPUT WHICH MAY BE UTILIZED CONTINUOUSLY WITHOUT LOAD CYCLING.

ALTITUDE:

ALTITUDE CAPABILITY - THE RECOMMENDED POWER VALUES FOR SUSTAINED ENGINE OPERATION AT SPECIFIC 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.

HEAT REJECTION

TOLERANCES:

CHV OR HHV ENERGY	+/- 5%
WORK ENERGY	+/- 3%
REJECTION TO COOLANT	+/- 10%
REJECTION TO EXHAUST	+/- 10%
EXHAUST RECOVERY	+/- 10%
FROM OIL COOLER	+/- 20%
FROM AFTERCOOLER	+/- 5%
REJECTION TO ATMOSPHERE +/- 50%	3 +/- 50%

THE FOLLOWING FORMULAS APPLY WHEN DOING AN ENERGY BALANCE:

STANDARD TEMPERATURE SYSTEM
HHV ENERGY = REJ TO COOLANT + REJ TO ATMOS + REJ TO EXH +
FROM AFTCLR + WORK ENERGY

COGENERATION (HIGH TEMPERATURE) SYSTEM AND G3600 HHV ENERGY = REJ TO COOLANT = REJ TO ATMOS + REJ TO EXH + FROM OIL CLR + FROM AFTCLR + WORK ENERGY

DEFINITIONS:

REJ TO COOLANT (JACKET WATER) - TOTAL AMOUNT OF HEAT PICKED UP BY THE ENGINE COOLING SYSTEM. FOR STANDARD TEMPERATURE SYSTEMS THE OIL COOLER HEAT REJECTION IS INCLUDED. FOR COGENERATION SYSTEM AND G3600 THE OIL COOLER IS SEPARATE FROM THE JACKET WATER. THEREFORE, THE OIL COOLER HEAT REJECTION IS NOT INCLUDED IN THE REJ TO COOLANT.

REJECTION TO EXHAUST - IS BASED ON COOLING EXHAUST STACK FLOW TO 25 DEG C (77 DEG F) AND IS USED IN THE ENERGY BALANCE.

EXHAUST RECOVERY - IS THE ENERGY AVAILABLE IF THE EXHAUST STACK FLOW IS COOLED TO 177 DEG C (350.6 DEG F).

SOUND DEFINITIONS:

Sound Power: <u>DM8702</u> Sound Pressure: <u>TM7080</u>

Date Released: 10/04/11

Caterpillar Confidential: Green

Content Owner: Commercial Processes Division Web Master(s): PSG Web Based Systems Support Current Date: 3/14/2024, 10:23:22 AM

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