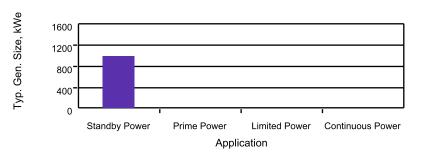
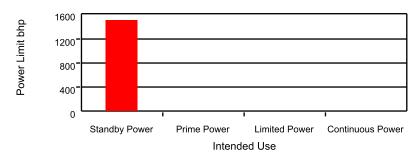


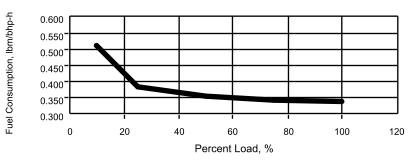


# Performance Data 06N04M1599

#### 1495 bhp @ 1800 r/min







Available power is shown. Data does not include parasitic losses from fans, accessories, etc. Parasitic losses will vary depending on the final product configuration and reduce the available power accordingly.

Standby Power 60 Hz - 1000 kWe							
Percent Load,	Power,	Fuel Consumption,					
%	bhp	lbm/bhp-h					
10	150	0.511					
25	374	0.386					
50	748	0.354					
75	1121	0.345					
100	1495	0.339					

Prime Power 60 Hz - 0							
Percent Load,	Power,	Fuel Consumption,					
%	bhp	lbm/bhp-h					
10	-	-					
25	-	-					
50	-	-					
75	-	-					
100	-	-					
	-	-					

Limited Power 60 Hz - 0							
Percent Load,	Power,	Fuel Consumption,					
%	bhp	lbm/bhp-h					
10	-	-					
25	-	-					
50	-	-					
75	-	-					
100	-	-					

Continuous Power 60 Hz - 0							
Percent Load,	Power,	Fuel Consumption,					
%	bhp	lbm/bhp-h					
10	-	-					
25	-	-					
50	-	-					
75	-	-					
100	-	-					

Tolerance for power values shown is +5/-0% at the conditions listed.

Tolerance for fuel values shown has not been specified.

Condition	ISO 3046
Air Inlet Temp.	77 °F
CAC Inlet Temp.	131 °F
Relative Humidity	30 %
Total Baro. Pressure	30 in. Hg
Fuel Inlet Temp.	77 °F
Spec. Fuel Gravity	0.8472
[ref. temp.]	77 °F
Air Inlet Restriction	6 in. H <sub>2</sub> O
Exhaust Back Pressure	12 in. H <sub>2</sub> O
Raw Water Temp.	- °F
Min. Fuel Heat Content	20,500 Btu/lbm
[ref. test spec]	-
Altitude, above sea level	328 ft
Air Density	0.1 lb/ft³
Fuel Density	7.07 lb/gal (US)
Oil Density	7.50 lb/gal (US)





# Technical Data 06N04M1599

# 1495 bhp @ 1800 r/min

	Standby Power	Prime Power	Limited Power	Continuous Power	
	60 Hz - 1000 kWe	60 Hz - 0	60 Hz - 0	60 Hz - 0	
Calibration Details					
Control System	MDEC Electronics	-	-	-	-
Maximum Power	1495	-	-	-	bhp
Maximum Power Speed	1800	-	-	-	r/min
Rated Power Limit	1495	-	-	-	bhp
Rated Power Limit Speed	1800	-	-	-	r/min
Typical Low Idle Speed	600	-	-	-	r/min
Typical High Idle Speed	1890	-	-	-	r/min
Intended Use	Standby Power applications	-	-	-	-
Cooling System					
Coolant Capacity in Engine Circuit	137	-	-	-	qt (US)
Coolant Capacity in Charge Air Circuit	21	-	-	-	qt (US)
Total Coolant Capacity	159	-	-	-	qt (US)
Coolant Flow Rate in Engine Circuit	255	-	-	-	gal/min (US)
Coolant Flow Rate in Charge Air Circuit	75	-	_	_	gal/min (US)
Heat Rejection to Engine Coolant Circuit	27,300	-	-	-	Btu/min
Heat Rejection to Coolant in Charge Air Circuit	16,500	-	_	_	Btu/min
Radiated Heat Rejection	2550	-	-	-	Btu/min
Exhaust System					·
Exhaust Flow Rate (volumetric)	8572	-	-	-	ft³/min
Exhaust Temperature	1085	-	-	-	°F
Fuel System					
Injector Device	_	_	_	_	-
Injection System	EUP	-	_	-	-
Fuel Flow Rate (mass)	840.6	_	_	_	lb <sub>m</sub> /h
Fuel Flow Rate (volumetric)	118.9	-	_	-	gal/h (US)
Fuel Spill Rate (mass)	334.1	_	_	_	Ibm/h
Fuel Spill Rate (volumetric)	47.3	-	-	-	gal/h (US)
Fuel Consumption (mass)	506.5	_	_	<u>-</u>	Ibm/h
Fuel Consumption (volumetric)	71.6	-	-	-	gal/h (US)
Heat Rejection to Fuel	-	-	_	<u>-</u>	Btu/min
Intake System					200,
Engine Air Flow Rate (volumetric)	2966			-	ft³/min
,					•
Intake Manifold Pressure	74	-	-	<del>-</del>	in. Hg

Available power is shown. Data does not include parasitic losses from fans, accessories, etc. Parasitic losses will vary depending on the final product configuration and reduce the available power accordingly.





# Technical Data 06N04M1599

#### 1495 bhp @ 1800 r/min

	Standby Power 60 Hz - 1000 kWe	Prime Power 60 Hz - 0	Limited Power 60 Hz - 0	Continuous Power 60 Hz - 0	
Lubrication System					
Oil Flow Rate	-	-	-	-	gal/min (US)
Oil Pressure	87	-	-	-	lbf/in.2
Oil Consumption (mass)	2.53	-	-	-	lbm/h
Oil Consumption (volumetric)	1.35	-	-	-	qt/h (US)
Additional Information					
Altitude Capability	-	-	-	-	ft
Brake Mean Effective Pressure (BMEP)	338	-	-	-	lbf/in.2
Compression Ratio	14.0	-	-	-	: 1
Friction Horsepower	-	-	-	-	fhp
Mean Piston Speed	1772	-	-	-	ft/min
Furbocharger	Twin K37-4665	-	-	-	-

Available power is shown. Data does not include parasitic losses from fans, accessories, etc. Parasitic losses will vary depending on the final product configuration and reduce the available power accordingly.





#### Gen Set 16V2000

#### Installation Data R1637M36

# 1495 bhp @ 1800 r/min

Cooling System	
Min. Coolant Flow Rate in CAC Circuit	67.4 gal/min (US)
Min. Coolant Flow Rate in Engine Circuit	229.8 gal/min (US)
Max. Coolant Out Temp. in Engine Circuit	203 °F
Max. CAC Water Pump Discharge Pressure (Exclusive of Pressure Cap)	- lb <sub>f</sub> /in.²
Max. Engine Water Pump Discharge Pressure (Exclusive of Pressure Cap)	- lb <sub>f</sub> /in. <sup>2</sup>
Min. Water Pump Inlet Pressure (Rapid Warm-up Rad.)	- lb <sub>f</sub> /in. <sup>2</sup>
Min. Water Pump Inlet Pressure (Conventional Rad.)	5.8 lb <sub>f</sub> /in. <sup>2</sup>
Max. Water Pump Static Pressure Head	22.0 lb <sub>f</sub> /in. <sup>2</sup>
Max. External Restriction in CAC Circuit	10.2 lb <sub>f</sub> /in. <sup>2</sup>
Max. External Restriction in Engine Circuit	10.2 lb <sub>f</sub> /in. <sup>2</sup>
Max. Intercooler Coolant Outlet Temp.	158 °F
Max. Ambient-to-Intercooler Coolant Outlet Temp. Rise	- °F
Min. Engine Coolant Fill Rate	- gal/min (US)
Min. Drawdown	10 %
Max. Dearation Time	30 min
Min. Pressure Cap	- lb <sub>f</sub> /in. <sup>2</sup>
Max. System Pressure (Exclusive of Pressure Cap)	31.9 lb <sub>f</sub> /in. <sup>2</sup>
Min. Top Tank Coolant Temp.	- °F
Crankshaft System	
Max. Radial Load- Crankshaft	- Ibf
Max. Continuous Load- Thrust Bearing	- lbf
Max. Intermittent Load- Thrust Bearing	- lbf
Max. Shock Load- Thrust Bearing	- Ibf
Max. Vertical Load at Rear Face of Flywheel (†)	- Ibf
Max. Static Bending Moment at Rear Face of Block	- ft-lb <sub>f</sub>
(†) The weight of the flywheel must be included with the OEM components.	
Electrical System	
Max. Resistance of Starting Circuit - 24 V System	- Ω
Rec. Battery Capacity - 24 V System	- CCA
Exhaust System	
Max. Exhaust System Back Pressure	3.0 in. Hg
Rec. Dry Exhaust Pipe Dia Single	9.0 in.
Rec. Dry Exhaust Pipe Dia Dual	6.0 in.

Fuel System	
Max. Fuel Inlet Temp.	131 °F
Max. Fuel Pump Suction for Clean System	8.9 in. Hg
Max. Fuel Pump Suction for Dirty System	- in. Hg
Max. Fuel Return Pressure	7.3 lb <sub>f</sub> /in. <sup>2</sup>
Rec. Primary Fuel Filter Size	- micron
Max. Secondary Fuel Filter Size	5 micron
Intake System	
Max. Ambient to Intake Manifold Temp. Differential	- °F
Max. Ambient to Turbo Compressor Inlet Temp. Rise	31 °F
Max. Crankcase Pressure	- in. H <sub>2</sub> O
Max. Intake Manifold Pressure	- in. Hg
Max. Intake Manifold Temp.	- °F
Max. Intake Restriction for a Clean Air Cleaner	12 in. H <sub>2</sub> O
Max. Intake Restriction for a Dirty Air Cleaner	20 in. H <sub>2</sub> O
Rec. Intake Pipe Dia Single	8.0 in.
Rec. Intake Pipe Dia Dual	- in.
Lubrication System	
Max. Change in Oil Pressure from Engine Out to Oil Cooler Inlet for Remote-mounted Filters	- in. H <sub>2</sub> O



#### 1495 bhp @ 1800 r/min

Certification Summary	
Certification Code (CWC)	5292
US Nonroad (Tier 1)	Certified.
US Nonroad (Tier 2)	Not certified.
US Nonroad (Tier 3)	Not certified.
US Nonroad (Tier 4)	Not certified.
EURO Nonroad (Stage I)	Not certified.
EURO Nonroad (Stage II)	Not certified.
EURO Nonroad (Stage III)	Not certified.
EURO Nonroad (Stage IV)	Not certified.
South Coast Air Quality Management District (SCAQMD)	Certified.
Compliance Summary	
Japanese Nonroad	No.
TA-Luft Power Plant	No.
SCAQMD Permit Information	
- Application Number	428837
- Status	Certified.
- Issue Date	17 MAY 2004
- Expiration Date	17 MAY 2006

Available power is shown. Data does not include parasitic losses from fans, accessories, etc. Parasitic losses will vary depending on the final product configuration and reduce the available power accordingly.

Steady-state Emission Summary   9700 g/h	Emission Data						
NOx CO		_	_	_	_	_	_
CO					970	0 a/h	
HC  SO2 - with .5% sulfur content fuel  SO2 - with .05% sulfur content fuel  SO2 - with .05% sulfur content fuel  Particulates  CO  HC  Particulates  Engine Load  10%  25%  50%  75%  100%  CO  1770  641  510  729  1045  107  HC  335  162  178  221  167  0.28  SO2 - with 0.5% sulfur content fuel  173  32.7  59.9  87.8  115  -  SO2 - with 0.05% sulfur content fuel  17.3  32.7  59.9  87.8  115  -  SO2 - with 0.05% sulfur content fuel  17.3  32.7  59.9  87.8  115  -  SO2 - with 0.05% sulfur content fuel  17.3  32.7  59.9  87.8  115  -  SO2 - with 0.05% sulfur content fuel  17.3  32.7  59.9  87.8  115  -  SO2 - with 0.05% sulfur content fuel  17.3  32.7  59.9  87.8  115  -  SO2 - with 0.05% sulfur content fuel  17.3  32.7  59.9  87.8  115  -  SO2 - with 0.05% sulfur content fuel  47.3  59.9  87.8  115  -  SO2 - with 0.05% sulfur content fuel  17.3  32.7  59.9  87.8  115  -  SO2 - with 0.05% sulfur content fuel  47.3  59.9  87.8  115  -  SO3 - with 0.05% sulfur content fuel  47.3  59.9  87.8  115  -  SO3 - with 0.05% sulfur content fuel  47.3  59.9  87.8  115  -  SO3 - with 0.05% sulfur content fuel  47.3  59.9  87.8  115  -  SO3 - with 0.05% sulfur content fuel  47.3  59.9  87.8  115  -  SO3 - with 0.05% sulfur content fuel  47.3  59.9  87.8  115  -  SO3 - with 0.05% sulfur content fuel  47.3  59.9  87.8  115  -  SO3 - with 0.05% sulfur content fuel  47.3  59.9  87.8  115  -  SO3 - with 0.05% sulfur content fuel  47.3  59.9  87.8  115  -  SO3 - with 0.05% sulfur content fuel  48.8  49.8  40.8							
SO2 - with .5% sulfur content fuel   1150 g/h	HC						
SO2 - with .05% sulfur content fuel	SO <sub>2</sub> - with .5% sulfur content fuel					-	
C1 Cycle Emission Summary  NOx	SO <sub>2</sub> - with .05% sulfur content fuel						
C1 Cycle Emission Summary  NOx	Particulates				65.	8 g/h	
CO - g/bhp·h HC - g/bhp·h Particulates - g/bhp·h D2 - Cycle Emissions  Engine Load 10% 25% 50% 75% 100% Cycle Value g/bhp·h  CO 1770 641 510 729 1045 1.07 HC 335 162 178 221 167 0.28 SO2 - with 0.5% sulfur content fuel 173 327 599 878 1150 - SO2 - with 0.05% sulfur content fuel 173 32.7 59.9 87.8 115 - SO2 - with 0.05% sulfur content fuel 173 32.7 59.9 87.8 115 - Particulates 57.8 25.1 63.0 63.6 65.8 0.07 NOx 1610 2680 3665 5990 9700 5.73 Opacity Mode  Acceleration - Lug - Peak - Smoke	C1 Cycle Emission Summary						
HC - g/bhp-h Particulates - g/bhp-h D2 - Cycle Emissions Engine Load 10% 25% 50% 75% 100% Cycle Value g/h CO 1770 641 510 729 1045 1.07 HC 335 162 178 221 167 0.28 SO2 - with 0.5% sulfur content fuel 173 327 599 878 1150 - SO2 - with 0.05% sulfur content fuel 173 32.7 59.9 87.8 115 - SO2 - with 0.05% sulfur content fuel 17.3 32.7 59.9 87.8 115 - Particulates 57.8 25.1 63.0 63.6 65.8 0.07 NOx 1610 2680 3665 5990 9700 5.73 Opacity Mode Acceleration - Lug - Peak - Smoke	NOx					- g/bhp·h	
Particulates - g/bhp·h  D2 - Cycle Emissions  Engine Load 10% 25% 50% 75% 100% Cycle Value g/h  CO 1770 641 510 729 1045 1.07  HC 335 162 178 221 167 0.28  SO2 - with 0.5% sulfur content fuel 173 327 599 878 1150 -  SO2 - with 0.05% sulfur content fuel 173 32.7 59.9 87.8 115 -  SO2 - with 0.05% sulfur content fuel 17.3 32.7 59.9 87.8 115 -  Particulates 57.8 25.1 63.0 63.6 65.8 0.07  NOx 1610 2680 3665 5990 9700 5.73  Opacity Mode  Acceleration  Lug  Peak  Smoke	CO					- g/bhp∙h	
D2 - Cycle Emissions  Engine Load  10% 25% 50% 75% 100% Cycle Value g/h  CO 1770 641 510 729 1045 1.07  HC 335 162 178 221 167 0.28  SO2 - with 0.5% sulfur content fuel 173 327 599 878 1150 - SO2 - with 0.05% sulfur content fuel 17.3 32.7 59.9 87.8 115 - SO2 - with 0.05% sulfur content fuel 27.3 28.7 29.9 20.0 20.0 20.0 20.0 20.0 20.0 20.0	HC					- g/bhp·h	
Engine Load  10% 25% 50% 75% 100% Cycle Value g/h  CO 1770 641 510 729 1045 1.07  HC 335 162 178 221 167 0.28  SO2 - with 0.5% sulfur content fuel 173 327 599 878 1150 -  SO2 - with 0.05% sulfur content fuel 173 32.7 59.9 87.8 115 -  Farticulates 57.8 25.1 63.0 63.6 65.8 0.07  NOx 1610 2680 3665 5990 9700 5.73  Opacity Mode  Acceleration	Particulates					- g/bhp∙h	
Engine Load 10% 25% 50% 75% 100% Value g/bhp-h  CO 1770 641 510 729 1045 1.07  HC 335 162 178 221 167 0.28  SO2 - with 0.5% sulfur content fuel 173 327 599 878 1150 -  SO2 - with 0.05% sulfur content fuel 173 32.7 59.9 87.8 115 -  Particulates 57.8 25.1 63.0 63.6 65.8 0.07  NOx 1610 2680 3665 5990 9700 5.73  Opacity Mode  Acceleration	D2 - Cycle Emissions						
CO 1770 641 510 729 1045 1.07 HC 335 162 178 221 167 0.28 SO2 - with 0.5% sulfur content fuel 173 327 599 878 1150 - SO2 - with 0.05% sulfur content fuel 173 32.7 59.9 87.8 115 - Particulates 57.8 25.1 63.0 63.6 65.8 0.07 NOx 1610 2680 3665 5990 9700 5.73 Opacity Mode Acceleration	Engine Load	10%	25%		75%	100%	Value
HC 335 162 178 221 167 0.28  SO2 - with 0.5% sulfur content fuel 173 327 599 878 1150 -  SO2 - with 0.05% sulfur content fuel 17.3 32.7 59.9 87.8 115 -  Particulates 57.8 25.1 63.0 63.6 65.8 0.07  NOx 1610 2680 3665 5990 9700 5.73  Opacity Mode  Acceleration	CO	1770	641	•	729	1045	
SO2 - with 0.5% sulfur content fuel       173       327       599       878       1150       -         SO2 - with 0.05% sulfur content fuel       17.3       32.7       59.9       87.8       115       -         Particulates       57.8       25.1       63.0       63.6       65.8       0.07         NOx       1610       2680       3665       5990       9700       5.73         Opacity Mode         Acceleration       -       -         Lug       -       -         Peak       -       -         Smoke       -       -			~				
SO2 - with 0.05% sulfur content fuel     17.3     32.7     59.9     87.8     115     -       Particulates     57.8     25.1     63.0     63.6     65.8     0.07       NOx     1610     2680     3665     5990     9700     5.73       Opacity Mode       Acceleration     -     -       Lug     -     -       Peak     -     -       Smoke							
NOx         1610         2680         3665         5990         9700         5.73           Opacity Mode         -         <		17.3	32.7	59.9	87.8	115	-
Opacity Mode  Acceleration - Lug - Peak - Smoke	Particulates	57.8	25.1	63.0	63.6	65.8	0.07
Acceleration - Lug - Peak - Smoke - Smoke	NOx	1610	2680	3665	5990	9700	5.73
Lug - Peak - Smoke -	Opacity Mode						
Peak - Smoke	Acceleration					-	
Smoke	Lug					-	
	Peak					-	
Bosch No.	Smoke						
DOSCII IVO.	Bosch No.					-	

Emission levels of the engine may vary as a function of ambient temperature, barometric pressure, humidity, fuel type and quality, installation parameters, measuring instrumentation, etc. The data provided are laboratory results from one engine representing this rating. The data was obtained under controlled environmental conditions with calibrated instrumentation traceable to the United States National Bureau of Standards and in compliance with US EPA regulations found at 40 CFR Part 89 (Control of Emissions From New and In-Use Nonroad Compression-Ignition Engines). The weighted cycle value from each engine is guaranteed to be below the US EPA Standards at the US EPA defined conditions.



# Noise Summary 06N04M1599

# 1495 bhp @ 1800 r/min

Frequency,	Surface,	Exhaust,	Structureborne Longitudinal,	Structureborne Transverse,	Structureborne Vertical,
Hz	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
25	21.8	48.9	-	-	41.3
32	29.9	68.5	-	-	59.1
40	28.7	63.0	-	-	57.4
50	34.9	72.8	-	-	64.8
63	40.6	81.9	-	-	63.8
80	50.8	78.2	-	-	75.0
100	60.9	90.0	-	-	80.9
125	74.3	99.0	-	-	80.9
160	69.3	100.0	-	-	81.6
200	72.5	105.2	-	-	76.6
250	77.6	104.3	-	-	82.9
315	78.4	102.8	-	-	84.4
400	82.8	104.8	-	-	93.7
500	83.8	107.8	-	-	99.3
630	85.0	105.2	-	-	93.6
800	86.8	104.4	-	-	90.2
1000	87.0	106.8	-	-	103.5
1250	88.8	105.8	-	-	97.1
1600	90.8	102.8	-	-	93.5
2000	92.6	101.8	-	-	92.7
2500	92.2	99.2	-	-	90.3
3150	91.5	98.0	-	-	91.7
4000	90.9	97.4	-	-	87.0
5000	86.9	89.3	-	-	80.5
6300	92.6	80.4	-	-	68.4
8000	86.4	71.5	-	-	68.9
10,000	98.8	55.9	-	-	63.5
12,500	84.6	-	-	-	-
16,000	-	-	-	-	-
20,000	-	-	-	-	-
Total	103.2	115.9	-	-	110.0

<b>Conditions and Tolerances</b>					
Data Tolerance	Tolerance for values shown is +2/-0 dB(A) at the conditions listed.	Tolerance for values shown is +3/-0 dB(A) at the conditions listed.	Tolerance for values shown has not been specified.	Tolerance for values shown has not been specified.	Tolerance for values shown has not been specified.
Test Standard	ISO 6798	ISO 6798	not specified	not specified	not specified
Comments	Data includes intake and air filter noise contributions.	2 x 90° and 2 x 45° (mitred)	not specified	not specified	not specified



# Gen Set 16V2000

Camshaft	
UPC Group Number	06X01B1297
Туре	Gear-driven
Location	In the cylinder block
Material	-
Surface Finish - Journal	-
Surface Finish - Lobe	-
Camshaft Bearing	
Туре	-
Material	-
Mean Effective Length [MEL]	- in.
Mean Journal Diameter [MJD]	- in.
Projected Area [per bearing]	- in.²
Connecting Rod	
Туре	-
Material	-
Connecting Rod Cap	
Туре	-
Material	-
Connecting Rod Crank Pin Bearing	
Туре	-
Quantity [per journal]	-
Material - Lower Bearing	-
Material - Upper Bearing	-
Mean Effective Length [MEL]	- in.
Mean Journal Diameter [MJD]	- in.
Projected Area [per bearing]	- in.²

Crankshaft	
Туре	<del>-</del>
Material	-
Surface Finish - Journal	-
Type of Balance	-
Crankshaft Main Bearing	
Туре	<del>-</del>
Quantity [per journal]	-
Material - Lower Bearing	-
Material - Upper Bearing	-
Mean Effective Length [MEL]	- in.
Mean Journal Diameter [MJD]	- in.
Projected Area [per bearing]	- in. <sup>2</sup>
Crankshaft Thrust Bearing	
Туре	-
Quantity	-
Mean Effective Length [MEL]	- in.
Mean Journal Diameter [MJD]	- in.
Projected Area [per bearing]	- in. <sup>2</sup>
Cylinder Block	
UPC Group Number	06A01 1641
Type	90-degree vee cylinder block
Material	-
Cylinder Head	
UPC Group Number	06A02 0529
Туре	-
Material	-
Air Management	-
Cylinder Liner	
UPC Group Number	06A02 0529
Туре	-
Material	-





# Gen Set 16V2000

### Mechanical Data R1637M36

Exhaust Valve	
Туре	Poppet valve
Material - Head	-
Material - Stem	-
Operating Mechanism	Push rod with rocker arm
Type of Lifter	-
Quantity [valves per cylinder]	2
Quantity [springs per valve]	-
Exhaust Valve Insert	
Туре	-
Material	-
Intake Valve	
Туре	Poppet valve
Material - Head	-
Material - Stem	-
Operating Mechanism	Push rod with rocker arm
Type of Lifter	-
Quantity [valves per cylinder]	-
Quantity [springs per valve]	-
Intake Valve Insert	
Туре	-
Material	-

Piston	
Туре	-
Material - Crown	-
Material - Skirt	-
Cooling	-
Piston Pin	
Туре	-
Material	-
Wrist Pin Keepers	-
Piston Pin Bearing	
Туре	-
Material	-
Piston Ring, Compression	
Top Ring	-
Second Ring	-
Quantity [per piston]	-
Piston Ring, Oil	
Туре	Two-piece, spring-loaded
Quantity [per piston]	-
Location	Below compression ring

# Engine Configuration Data Summary

Description	
Model Number	R1637M36
Number of Cylinders	16
Bore	5.12 in.
Stroke	5.91 in.
Displacement - per cylinder	121 in. <sup>3</sup>
Displacement - total	1944 in. <sup>3</sup>
Aftertreatment	No Aftertreatment Device
Aspiration	Turbocharged
Combustion System	Direct Injection
Charge Air Cooling System	Separate Circuit Charge Cooling (SCCC)
Electronic System	MDEC Electronics
Engine Type	90-degree Vee Engine
Ventilation	Open Engine Crankcase
Status	Available
Availability Date	03 NOV 2003
Discontinued Date	-

This model is approved for commercial gen set applications (60 Hz only).

Size	
Overall Length	85.83 in.
Overall Width	62.20 in.
Overall Height	61.81 in.

Weight	
Approximate Dry Weight	7011 lbm
Approximate Wet Weight	7518 lbm

Center of Gravity for a Dry Engine	
Distance from Rear Face of Block: x-axis	31.93 in.
Distance above Crankshaft: y-axis	6.69 in.
Distance to the Right of the Crankshaft: z-axis	0.91 in.