

GAS GEN SET ENGINE (F)  
GRIFFIN, GEORGIA

Ship Weight  
lbs

List Price  
At Factory

Product Consist:

### PRICING INFORMATION

These prices are manufacturer suggested resale prices and are subject to change without notice. Shipment will usually be made from source of manufacture, or at factory discretion. Attachment prices are for attachments installed as original equipment unless otherwise specified.

Net price items are subject to no further discounts.

All prices are installed list prices unless otherwise specified.

\*SHIPMENT DATE SPECIFIC PRICING IS BEST FOUND THROUGH THE CSQ QUOTING TOOL\*.

### AVAILABILITY

For product availability go to Power Net at <https://engines.cat.com>  
Under the Links tab, select Availability Letters.

### GLOSSARY OF TERMS

For product abbreviations go to Power Net at <https://engines.cat.com>  
Under the applications tab, select TMI Web. Once in TMI select Abbreviations, listed under TMI Definitions/Utilities.

### DESIGN TO ORDER (DTO)

Orders requiring special engineering (referred to as DTO) will require additional process time. This time is over and above normal order processing or product availability.

Attachments listed in the price list are NOT interchangeable between sales models or applications. If attachments are required for a particular model or configuration but are not listed as compatible for this model in a specific price list, the order will require a DTO. This is true even when the same attachment or configuration has been ordered in the past.

A DTO will require an application and installation (A & I) marketing quote. For further information contact the Application Support Center.

Requests for special ratings not listed in the Price List should also be sent to the Application Support Center. If the special rating is possible, it may also require a DTO and could require additional processing time if the appropriate details have not yet been established.

Please keep this information in mind when discussing or quoting approximate availability to your customers.

DTO quotes are typically valid for six (6) months. If the quote expires, regardless if it has been ordered or not, a new DTO quote will be required before an order can be placed.

### DEALER SPECIFIC PRICING TERMS

To obtain the latest specific conditions from Caterpillar to individual Cat dealers please use Engine Order Management Process (EOMP) quoting and order tools like CSQ. For questions or

GAS GEN SET ENGINE (F)  
GRIFFIN, GEORGIA

Ship Weight  
lbs

List Price  
At Factory

## DEALER SPECIFIC PRICING TERMS (CONT.)

special requests, please contact your Caterpillar representative.

## TECHNICAL PERFORMANCE DATA

Technical performance data and Engine rating information is available in Power Net at <https://engines.cat.com>. Under the quick links, select TMI Web. Once in TMI select TMI Performance Definitions.

To request dealer specific authorization, please follow links to Engine Order Management Process (EOMP) at Caterpillar Power Net (<https://engines.cat.com>). CWS logon id is needed to access Power Net.

## RATINGS GUIDE

The EPG Ratings Guide may be ordered through Media Logistics by calling +1 (800) 566-7782 or +1 (309) 266-0942. The current EPG Ratings Guide media number for Cat Generator Sets is LEXE7582 or LEXE7581 for Olympian Generator Sets.

Current EPG ratings are also available by accessing the Electronic Media Center at <https://emc.cat.com> and on Power Net at <https://engines.cat.com>, select Electric Power then select References/Sales Tools.

## AIR INLET SYSTEM

Air cleaner, single element with service indicator (TA). Optional air inlet adapter and rain cap recommended for weather protection.  
Air cleaner, heavy duty with rain cap and service indicator (NA). Rain cap shipped loose on NA.

## CHARGING SYSTEM

Ammeter gauge and wiring. Includes mounted ammeter gauge and wiring between electric starter, alternator, and ammeter.  
Charging alternator, 24V, 35A. Belt driven. Heavy duty with integral regulator. Includes circuit breaker.

## CONTROL SYSTEM

Governor, Woodward  
TA: 2301A speed control, EG3P actuator  
NA: PSG (with electric motor for remote control)

## COOLING SYSTEM

Aftercooler water pump, gear driven, centrifugal, non-self-priming (TA only).  
Aftercooler core, for treated water and sea air atmosphere (TA only).  
Jacket water pump, gear driven, centrifugal, non-self-priming.  
Thermostats and housing, full open temperature 98 C (208 F).

## EXHAUST SYSTEM

Exhaust manifolds, watercooled  
Exhaust elbow, dry  
TA: 203 mm (8 in)  
NA: 152 mm (6 in)

## FLYWHEELS & FLYWHEEL HOUSINGS

Flywheel, SAE No. 0

GAS GEN SET ENGINE (F)  
GRIFFIN, GEORGIA

Ship Weight  
lbs

List Price  
At Factory

## FLYWHEELS & FLYWHEEL HOUSINGS (CONT.)

Flywheel housing, SAE No. 0  
SAE standard rotation

## FUEL SYSTEM

Gas pressure regulator  
TA and NA engines require 1.5 - 5 psi gas  
Natural gas carburetor

## IGNITION SYSTEM

Digital ignition system  
Control module, shipped loose. Interconnect harness, 20 ft.  
24V DC power supply required.

## INSTRUMENTATION

Instrument panel, left-hand. Provides mechanical oil pressure and  
water temperature gauges.  
Service meter.

## LUBE SYSTEM

Auxiliary oil reservoir, shipped loose (TA only).  
Shipped dry.  
Crankcase breather, top mounted  
Lubricating oil. Cat NGENO, 40 wt. 85L (22 gal).  
Engine filled with oil.  
Oil cooler, RH  
Oil filter, RH  
Oil filler in valve cover, dipstick both RH  
Oil pan, rear sump

## MOUNTING SYSTEM

Engine supports

## PROTECTION SYSTEM

Powered shutoff OP/WT/OS. 24V (external power) energized to run, low  
oil pressure contactor 60 kPa (10 psi), high coolant temperature  
104 C (220 F), overspeed, emergency stop push button. Requires a  
Caterpillar supplied gas valve (see optional attachments) or a  
customer supplied gas shutoff valve (energized to run). For wiring  
information, use drawing 4P-5626.

## STARTING SYSTEM

Electric starting motor, single, right-hand, 24V. Jacket water heater  
recommended for 10 second starting below 20 C (68 F). Includes start  
stop switch.

## GENERAL

Paint, Caterpillar yellow  
Crankshaft vibration damper and drive pulleys  
Lifting eyes (engine only)

"Stationary Use Only Label" : Effective January 2004, the US EPA  
Nonroad Mobile SI rule restricts the use of SI gas engines within  
the United States. Caterpillar's Gas Engines are not certified  
for mobile applications within the US and are to be used in

GAS GEN SET ENGINE (F)  
 GRIFFIN, GEORGIA

Ship Weight  
 lbs

List Price  
 At Factory

## GENERAL (CONT.)

"stationary use only" applications. All gas engines will have this label attached regardless of the dealer placing the order.

Note: Torsional analysis is recommended if other than a Caterpillar generator is used.

# G3412 GEG

GAS GEN SET ENGINE (F) GRIFFIN, GEORGIA		Ship Weight lbs	List Price At Factory
F	<b>412GN01 G3412 TA GEN SET ENGINE</b> ..... TECHNICAL:9.7:1 ratio, low pressure gas. 1500-1800 rpm. REQUIRES: SEE MANDATORY ATTACHMENTS. ONLY FOR USE WITH: 586 or 588 frame generator.	4,720	<b>\$146,627</b>
F	<b>412GN02 G3412 TA GEN SET ENGINE</b> ..... TECHNICAL:8.5:1 ratio, low pressure gas. 1500-1800 rpm. REQUIRES: SEE MANDATORY ATTACHMENTS. ONLY FOR USE WITH: 586 or 588 frame generator.	4,720	<b>\$146,627</b>
F	<b>412GN03 G3412 NA GEN SET ENGINE</b> ..... TECHNICAL:9.7:1 ratio, low pressure gas. 1500-1800 rpm. REQUIRES: SEE MANDATORY ATTACHMENTS.	4,420	<b>\$121,192</b>

GAS GEN SET LOW EMISSION ENG - EAME (H)  
GRIFFIN, GEORGIA

Ship Weight  
lbs

List Price  
At Factory

Product Consist:

### **AIR INLET SYSTEM**

Air cleaner, single element with service indicator. Optional air inlet adapter and rain cap recommended for weather protection.

### **CONTROL SYSTEM**

Governor, Woodward, 2301A speed control, EG3P actuator  
(2301A shipped loose)

### **COOLING SYSTEM**

Aftercooler water pump, gear driven, centrifugal, non-self-priming.  
Aftercooler core, for treated water and sea air atmosphere.  
Jacket water pump, gear driven, centrifugal, non-self-priming.  
Thermostats and housing, full open temperature 98 C (208 F).

### **EXHAUST SYSTEM**

Exhaust manifolds, watercooled  
1/8-27 NPTF tapped holes for thermocouples  
Exhaust elbow, dry, 203 mm (8 in)

### **FLYWHEELS & FLYWHEEL HOUSINGS**

Flywheel, SAE No. 0  
Flywheel housing, SAE No. 0  
SAE standard rotation

### **FUEL SYSTEM**

Gas pressure regulator  
Requires 100 - 350 mBar (1.5 - 5 psi) gas  
Deltec natural gas carburetor (31 - 40 MJ/Nm<sup>3</sup> venturi standard)

### **IGNITION SYSTEM**

Caterpillar Electronic Ignition System (E.I.S.)  
(Includes detonation sensitive timing).

### **INSTRUMENTATION**

Instrument panel, right-hand. Provides mechanical oil pressure and water temperature gauges.  
Service meter

### **LUBE SYSTEM**

Crankcase breather, top mounted.  
Lubricating oil. Cat NGEO, 30 wt, 205 L (54 gal).  
Oil cooler, RH.  
Oil filter, RH.  
Oil filler in valve cover, dipstick both RH.  
Oil pan, deep, rear sump.

### **MOUNTING SYSTEM**

Engine supports

### **PROTECTION SYSTEM**

Customer supplied shutoff. Includes no wiring groups or shutoffs. It is the customer's responsibility to provide the following minimum protection: high water temperature shutoff 104 C (220 F), low oil pressure shutoff (10 psi), high air inlet temperature (or high aftercooler water temperature) and overspeed protection (use the

GAS GEN SET LOW EMISSION ENG - EAME (H)  
 GRIFFIN, GEORGIA

Ship Weight  
 lbs

List Price  
 At Factory

**PROTECTION SYSTEM (CONT.)**

lesser of 10 percent over rated engine speed or the maximum safe speed of driven equipment). Customer must provide emergency stop push button and wiring.

**STARTING SYSTEM**

Electric starting motor, single, right-hand, 24V. Jacket water heater recommended for 10 second starting below 20 C (68 F).

**GENERAL**

- Paint, Caterpillar yellow
- Crankshaft vibration damper and drive pulleys
- Lifting eyes (engine only)
- Cylinder block inspection covers

Note: Torsional analysis is recommended if other than a Caterpillar generator is used.

<b>H</b>	<b>412GNS2</b>	<b>G3412 LE GEN SET ENGINE</b> . . . . . 4,720 Includes deep oil pan. TECHNICAL: 11.4:1 compression ratio, low pressure gas. 1500 rpm. ONLY FOR USE WITH: 589 frame generator. NOTE: Restricted to EAME dealers for final assembly of fuel and protection systems and for operation in Europe only.	<b>\$154,221</b>
----------	----------------	---	------------------

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	List Price At Factory
-----	---------	-----------------------	-----------------	-----------------------

**DOCUMENTATION**

**ENGINE APPLICATION/DESIGN CONTROL**

*Compression Ratio*

F	COMRA05	9.7:1 COMPRESSION RATIO . . . . .	0	NC
F	COMRA06	8.5:1 COMPRESSION RATIO . . . . .	0	NC
H	COMRA07	11.4:1 COMPRESSION RATIO . . . . .	0	NC

*Emission Levels*

F	EMISS01	STANDARD EMISSION LEVEL . . . . .	0	NC
F	EMISS02	CATALYST EMISSION LEVEL . . . . .	0	NC
H	EMISS05	TA LUFT EMISSION LEVEL . . . . .	0	NC

*Primary Fuel Type*

FH	NGASFUE	NATURAL GAS FUEL . . . . .	0	NC
F	PROPFUE	PROPANE FUEL . . . . .	0	NC

*Application Type*

FH	RTGCNSR	CONTINUOUS SERVICE RATING . . . . . Typical load factor = 70-100 % Typical hours/year = No Limit Typical Peak Demand = 100 % of continuous rated kW for 100% of operating hours. Typical Application = Base load or utility or Co-Generation or Peak Shaving.	0	NC
F	STBYRAT	STANDBY RATING . . . . . Typical load factor = 60% or less. Typical hours/year = 100 hours Typical Peak Demand = 80% of standby rated kW with 100% of rating available for the duration of an emergency outage. Typical Application = Building service standby and enclosure/sheltered environment.	0	NC



USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	List Price At Factory
-----	---------	-----------------------	-----------------	-----------------------

**APPLICATION INDICATORS**

*Market Segmentation*

FH	MSEPGGS	<b>END USE: GENERAL EPG GAS</b> . . . . . 0 All gaseous fueled, spark ignited generator sets utilized in the generation of electrical power and or combined heat and power applications including cogen, trigen, and quadgen. These gas genset products are applied in, but not limited to commercial, industrial, agricultural, utility, public and civil service sectors. These products are often leveraged in utility applications, food processing plants, landfill sites, agriculture livestock facilities, wastewater treatment plants, biofuel manufacturing plants, communication sites, data centers, commercial/residential buildings, manufacturing plants, greenhouses, and mining sites. These gensets are often applied in base load, load management, and standby applications. This category should not be used for EP Rental, Petroleum, Locomotive, or Marine electric power applications.		NC
FH	MSPETDR	<b>PETROLEUM LAND DRILLING</b> . . . . . 0 Engines, transmissions and packages used to drill oil and gas wells (including auxiliary GEN Sets mounted on drill rigs). This includes Petroleum, Industrial, EPG, and Marine price list products.		NC
FH	MSPETPG	<b>END USE: PETRO PRODUCTION/PUMP</b> . . . . . 0 All engines utilized in the generation of mechanical and electrical power for exploration, recovery and transmission of petroleum products including gathering, production, pumping, and refining, (BUT NOT GAS COMPRESSION or drilling). Applications include camp power, emergency GEN Sets (non-drilling), prime power at production and storage facilities, cranes, fire pumps, air compressors, primary or secondary recovery systems such as down hole pumps, water flood or disposal systems, etc. This includes rental products which fit Petroleum Production/Pumping market segment description. This includes industrial, marine, and EPG price list products.		NC
F	MSPETOD	<b>PETRO OFFSHORE DRILLING</b> . . . . . 0 Engines and genset packages used as main sources of power for drilling duty or for emergency power on offshore oil & gas drill rigs (but not on production rigs, platforms, or facilities). Does not include firepumps or cranes for drilling or production rigs, platforms, or facilities.		NC

**ENGINE RATING AND SPEED**

*Engine Rating*

(Standby)

F	EKW0515	<b>515 EKW W/O FAN (32 DEG AC)</b> . . . . . 0 REQUIRES: Engine 412GN01 and 1800 RPM.		NC
F	EKW0495	<b>495 EKW W/O FAN (32 DEG AC)</b> . . . . . 0 REQUIRES: Engine 412GN02 and 1800 RPM.		NC
F	EKW0480	<b>480 EKW W/O FAN (54 DEG AC)</b> . . . . . 0 REQUIRES: Engine 412GN01 and 1800 RPM.		NC
F	EKK0460	<b>460 EKW W/O FAN (54 DEG AC)</b> . . . . . 0 REQUIRES: Engine 412GN02 and 1800 RPM.		NC

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	List Price At Factory
-----	---------	-----------------------	-----------------	-----------------------

**ENGINE RATING AND SPEED (CONT.)**

*Engine Rating (Cont.)*

(Continuous)

F	EKW0425	425 EKW W/O FAN (32 DEG AC) . . . . . 0 REQUIRES: Engine 412GN01, 412GN02 and 1800 RPM.		NC
H	EKW0395	395 EKW W/O FAN (32 DEG AC) . . . . . 0 REQUIRES: Engine 412GNS2.		NC
F	EKK0395	395 EKW W/O FAN (54 DEG AC) . . . . . 0 REQUIRES: Engine 412GN01, 412GN02 and 1800 RPM.		NC
H	EKK0370	370 EKW W/O FAN (54 DEG AC) . . . . . 0 REQUIRES: Engine 412GNS2.		NC
F	EKW0355	355 EKW W/O FAN (54 DEG AC) . . . . . 0 REQUIRES: Engine 412GN01, 412GN02 and 1500 RPM.		NC
F	EKK0325	325 EKW W/O FAN (54 DEG AC) . . . . . 0 REQUIRES: Engine 412GN01, 412GN02 and 1500 RPM.		NC
F	EKK0250	250 EKW W/O FAN (NA RATING) . . . . . 0 REQUIRES: Engine 412GN03.		NC
F	EKW0225	225 EKW W/O FAN (NA RATING) . . . . . 0 REQUIRES: Engine 412GN03.		NC
FH	RATSPEC	SPECIAL RATING REQUEST . . . . . 0 REQUIRES: Approved Special Rating Request (SRR) before order is submitted.		NC
FH	PSTSPCL	SPECIAL SETTING REQUEST . . . . . 0		NC

*Engine Speed*

FH	SPD1500	1500 RPM (50 HERTZ) . . . . . 0		NC
F	SPD1800	1800 RPM (60 HERTZ) . . . . . 0		NC

**EUROPEAN CERTIFICATIONS**

*European Union Certifications*

FH	EUDED01	EUROPEAN DIRECTIVE ENGINE DOI . . . . . 0 TECHNICAL: Provides Declaration of Incorporation document per 2006/42/EC (Machinery Safety Directive). The Declaration of Incorporation allows free movement of goods in the EU per the Machinery Safety Directive, 2006/42/EC, and references demonstrated compliance to other applicable directives. This is required by OEM manufacturers when the subject product is installed in a more complex installation. CANNOT BE USED WITH: 412GN01.  NOTE: Not for use with Hazardous Location engines.		\$279 NET
----	---------	---	--	-----------

USE	REF NO.	<b>MANDATORY ATTACHMENTS</b>	Ship Weight lbs	List Price At Factory
-----	---------	------------------------------	--------------------	--------------------------

**EUROPEAN CERTIFICATIONS (CONT.)**

*European Union Certifications (Cont.)*

FH	NOEUCRT	<b>NO EU CERT REQUEST-SEE DETAILS . . . . . 0</b> TECHNICAL: If full CE certification (Declaration of Conformity, complete gensets) or Declaration of Incorporation (partially completed gensets) is not selected then this product cannot be legally placed on the market in the EU/EEA or any country where the product would otherwise be subject to national legislation implementing the requirements of the machinery directive (2006/42/EC) (collectively "the Region"). If shipped to an address in the Region without the necessary certification/documentation, the buyer has undertaken that the product will then be exported from the Region.	0	<b>NC</b>
----	---------	---	---	-----------

**MANDATORY OPTIONS**

***NSPS Emission Rule***

US EPA SI (Spark Ignited) Stationary NSPS (New Source Performance Standard) Regulations:

Effective July 2007, the US EPA will enforce the new Spark-Ignited New Source Performance Standard (SI NSPS) for gas stationary engines operating in the United States equal to or above 500 bhp. Effective January 1 2008 this standard will apply to all gas engines rated below 500 bhp. This rule will affect all continuous applications including landfill and ag biogas. Effective Jan 1 2009, this rule will apply to all Standby units. For more information see Cat Power Net website: Product News dated April 2007, media number LEXE7149.

Replacement engines also have emissions rules. The dealer must obtain the replaced engine SN plates and store it for EPA review. The replaced engine can only be sold as parts. For more information on replacement engines, contact the factory.

FC	NSPSNUS	<b>NON-U.S. GENSET . . . . . 0</b> Application--gas generator sets used outside of the United States of America. The SI NSPS rule does not apply.	0	<b>NC</b>
FC	NSPSSBG	<b>U.S. STANDBY/EMERGENCY GENSET . . . . . 0</b> Application--gas generator sets to be used in the United States in standby or emergency applications only (pipeline natural gas or propane).	0	<b>NC</b>

These gas generator sets must be installed and operational before January 1, 2009, the date that the SI NSPS rule becomes effective for Standby Generator Sets. More information on Cat PowerNet website.

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	List Price At Factory
-----	---------	-----------------------	-----------------	-----------------------

**MANDATORY OPTIONS (CONT.)**

*NSPS Emission Rule (Cont.)*

FC	NONNSPS	NSPS NON-COMPLIANT ENG . . . . . 0		NC
		Application--gas generator sets to be used in continuous power applications in the United States (all gasses including digester, landfill and ag bio-gas).		

Even after extensive modifications these gensets are not expected to meet the SI NSPS customer conducted field emissions test. Examples are the G3300 and G3400 ratings. Nearly all these rich burn ratings have 2 to 4% excess oxygen in the exhaust. To use a 3-way catalyst the excess oxygen must be near 0%, or ratings must be labeled as "Cat" or "catalyst" ratings. The G3500 LE products have a nominal 2 g/bhp hr Nox setting NSPS requires a not-to-exceed 2 g/bhp-hr limit. Possible lower Nox settings are available for G3500 LE products through an SRR Special Rating Request).

**EXTENDED SERVICE COVERAGE**

*Cat Branded Commercial Power Systems*

Customer must select one of the following Extended Service Coverage options for Cat branded commercial power systems. If no ESC is desired, select feature code for NO ESC.

For coverage details, including covered components and exclusions, see applicable contract (<https://Dealer.cat.com/ESC>). All options included here are \$0 deductible.

FH	ECI2DO1	PLATINUM COVERAGE . . . . . 0		\$1,800 NET
		Prime/Continuous: 24 months, 1,500 hours, \$0 deductible		
FH	ECM2DO1	PLATINUM PLUS COVERAGE . . . . . 0		\$2,060 NET
		Prime/Continuous: 24 months, 1,500 hours, \$0 deductible		
FH	ECI2KO1	PLATINUM COVERAGE . . . . . 0		\$5,040 NET
		Prime/Continuous: 24 months, 5,000 hours, \$0 deductible		
FH	ECM2KO1	PLATINUM PLUS COVERAGE . . . . . 0		\$5,760 NET
		Prime/Continuous: 24 months, 5,000 hours, \$0 deductible		
FH	ECI2RO1	PLATINUM COVERAGE . . . . . 0		\$9,190 NET
		Prime/Continuous: 24 months, 12,000 hours, \$0 deductible		
FH	ECM2RO1	PLATINUM PLUS COVERAGE . . . . . 0		\$10,500 NET
		Prime/Continuous: 24 months, 12,000 hours, \$0 deductible		
FH	ECI3EO1	PLATINUM COVERAGE . . . . . 0		\$3,360 NET
		Prime/Continuous: 36 months, 2,000 hours, \$0 deductible		
FH	ECM3EO1	PLATINUM PLUS COVERAGE . . . . . 0		\$3,840 NET
		Prime/Continuous: 36 months, 2,000 hours, \$0 deductible		
FH	ECI3KO1	PLATINUM COVERAGE . . . . . 0		\$6,970 NET
		Prime/Continuous: 36 months, 5,000 hours, \$0 deductible		
FH	ECM3KO1	PLATINUM PLUS COVERAGE . . . . . 0		\$7,970 NET
		Prime/Continuous: 36 months, 5,000 hours, \$0 deductible		
FH	ECI3RO1	PLATINUM COVERAGE . . . . . 0		\$12,010 NET
		Prime/Continuous: 36 months, 12,000 hours, \$0 deductible		
FH	ECM3RO1	PLATINUM PLUS COVERAGE . . . . . 0		\$13,720 NET
		Prime/Continuous: 36 months, 12,000 hours, \$0 deductible		
FH	ECI4FO1	PLATINUM COVERAGE . . . . . 0		\$4,990 NET
		Prime/Continuous: 48 months, 2,500 hours, \$0 deductible		

USE	REF NO.	MANDATORY ATTACHMENTS	Ship Weight lbs	List Price At Factory
-----	---------	-----------------------	-----------------	-----------------------

**EXTENDED SERVICE COVERAGE (CONT.)**

*Cat Branded Commercial Power Systems (Cont.)*

FH	ECM4FO1	PLATINUM PLUS COVERAGE . . . . . 0 Prime/Continuous: 48 months, 2,500 hours, \$0 deductible		\$5,700 NET
FH	ECI4KO1	PLATINUM COVERAGE . . . . . 0 Prime/Continuous: 48 months, 5,000 hours, \$0 deductible		\$8,450 NET
FH	ECM4KO1	PLATINUM PLUS COVERAGE . . . . . 0 Prime/Continuous: 48 months, 5,000 hours, \$0 deductible		\$9,650 NET
FH	ECI4RO1	PLATINUM COVERAGE . . . . . 0 Prime/Continuous: 48 months, 12,000 hours, \$0 deductible		\$14,210 NET
FH	ECM4RO1	PLATINUM PLUS COVERAGE . . . . . 0 Prime/Continuous: 48 months, 12,000 hours, \$0 deductible		\$16,240 NET
FH	ECI5GO1	PLATINUM COVERAGE . . . . . 0 Prime/Continuous: 60 months, 3,000 hours, \$0 deductible		\$6,770 NET
FH	ECM5GO1	PLATINUM PLUS COVERAGE . . . . . 0 Prime/Continuous: 60 months, 3,000 hours, \$0 deductible		\$7,740 NET
FH	ECI5KO1	PLATINUM COVERAGE . . . . . 0 Prime/Continuous: 60 months, 5,000 hours, \$0 deductible		\$9,840 NET
FH	ECM5KO1	PLATINUM PLUS COVERAGE . . . . . 0 Prime/Continuous: 60 months, 5,000 hours, \$0 deductible		\$11,250 NET
FH	ECI5RO1	PLATINUM COVERAGE . . . . . 0 Prime/Continuous: 60 months, 12,000 hours, \$0 deductible		\$16,340 NET
FH	ECM5RO1	PLATINUM PLUS COVERAGE . . . . . 0 Prime/Continuous: 60 months, 12,000 hours, \$0 deductible		\$18,670 NET
FH	ECB3DO1	SILVER COVERAGE . . . . . 0 Standby: 36 months, 1,500 hours, \$0 deductible		\$500 NET
FH	ECF3DO1	GOLD COVERAGE . . . . . 0 Standby: 36 months, 1,500 hours, \$0 deductible		\$750 NET
FH	ECJ3DO1	PLATINUM COVERAGE . . . . . 0 Standby: 36 months, 1,500 hours, \$0 deductible		\$870 NET
FH	ECN3DO1	PLATINUM PLUS COVERAGE . . . . . 0 Standby: 36 months, 1,500 hours, \$0 deductible		\$990 NET
FH	ECB4EO1	SILVER COVERAGE . . . . . 0 Standby: 48 months, 2,000 hours, \$0 deductible		\$900 NET
FH	ECF4EO1	GOLD COVERAGE . . . . . 0 Standby: 48 months, 2,000 hours, \$0 deductible		\$1,350 NET
FH	ECJ4EO1	PLATINUM COVERAGE . . . . . 0 Standby: 48 months, 2,000 hours, \$0 deductible		\$1,580 NET
FH	ECN4EO1	PLATINUM PLUS COVERAGE . . . . . 0 Standby: 48 months, 2,000 hours, \$0 deductible		\$1,810 NET
FH	ECB5FO1	SILVER COVERAGE . . . . . 0 Standby: 60 months, 2,500 hours, \$0 deductible		\$1,430 NET
FH	ECF5FO1	GOLD COVERAGE . . . . . 0 Standby: 60 months, 2,500 hours, \$0 deductible		\$2,150 NET
FH	ECJ5FO1	PLATINUM COVERAGE . . . . . 0 Standby: 60 months, 2,500 hours, \$0 deductible		\$2,510 NET
FH	ECN5FO1	PLATINUM PLUS COVERAGE . . . . . 0 Standby: 60 months, 2,500 hours, \$0 deductible		\$2,870 NET
FH	ECB0KO1	SILVER COVERAGE . . . . . 0 Standby: 120 months, 5,000 hours, \$0 deductible		\$6,130 NET
FH	ECF0KO1	GOLD COVERAGE . . . . . 0 Standby: 120 months, 5,000 hours, \$0 deductible		\$9,200 NET
FH	ECJ0KO1	PLATINUM COVERAGE . . . . . 0 Standby: 120 months, 5,000 hours, \$0 deductible		\$10,730 NET
FH	ECN0KO1	PLATINUM PLUS COVERAGE . . . . . 0 Standby: 120 months, 5,000 hours, \$0 deductible		\$12,260 NET

---

USE	REF NO.	<b>MANDATORY ATTACHMENTS</b>	Ship Weight lbs	List Price At Factory
-----	------------	------------------------------	--------------------	--------------------------

---

### EXTENDED SERVICE COVERAGE (CONT.)

*No ESC*

FH	ESCNONE	NO EXTENDED SERVICE COVERAGE..... 0	NC
----	---------	-------------------------------------	----

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
-----	---------	----------------------	-----------------	-----------------------

**CONTROL SYSTEM**

*Proact governor*

H	GOVSC12	<b>PROACT SPEED CONTROL GOVERNOR</b> . . . . . 0 Woodward Proact actuator and ship loose speed control governor. Removes standard EG3P actuator and 2301A speed control.		NC
H	CSPGM01	<b>PROGRAMMER</b> . . . . . 0 Shipped loose. Required to program ProAct II governor.		\$985

**COOLING SYSTEM**

*Fan drives for customer supplied radiators*

F	FDV0032	<b>FAN DRIVE 0.485 RATIO</b> . . . . . 0 Includes vee belts.		\$658
F	FDV0019	<b>FAN DRIVE 0.571 RATIO</b> . . . . . 0 Includes vee belts.		\$629
F	FDV0006	<b>FAN DRIVE 0.681 RATIO</b> . . . . . 0 Includes vee belts.		\$482
F	FDV0010	<b>FAN DRIVE .571 RATIO</b> . . . . . 0 Does not include vee belts.		\$625

*Aftercooler pump removal*

H	ACPMR1	<b>AFTERCOOLER PUMP REMOVAL</b> . . . . . 0 Removes standard aftercooler pump and lines. ONLY FOR USE WITH: Customer supplied aftercooler pump and lines.		\$-1,938
---	--------	---	--	----------

*Aftercooler Cores*

F	CSCRA01	<b>CORROSION RESIST. AFTERCOOLER</b> . . . . . 0 TECHNICAL: Replaces standard aftercooler cores with cores made from stainless steel. Engine performance is unchanged with these stainless steel cores. ONLY FOR USE WITH: Pipeline natural gas having trace amounts of H2S up to 20 ppm. CANNOT BE USED WITH: 412GN03, 412GNS2.		\$2,654
H	AFTCL08	<b>CORROSION RESISTNT AFTCLR CORE</b> . . . . . 0 TECHNICAL: Replaces standard aftercooler cores with cores made from stainless steel. Engine performance is unchanged with these stainless steel cores. ONLY FOR USE WITH: Pipeline natural gas having trace amounts of H2S up to 20 ppm. CANNOT BE USED WITH: 412GN01, 412GN02, 412GN03.		\$143

*Expansion tanks*

Includes filler cap.

H	EXPTK03	<b>EXPANSION TANK</b> . . . . . 0 TECHNICAL: Maximum allowable external coolant volume: 55 L (14.5 gal). Maximum pressure 7 psi.		\$3,823
---	---------	--	--	---------

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
-----	---------	----------------------	-----------------	-----------------------

**FUEL SYSTEM**

***Propane gas valve and jet kits***

Shipped loose.

F	CRBVJ05	PROPANE CONVERSION KIT . . . . . 0 ONLY FOR USE WITH: 8.5:1 compression ratio engines running on propane. Propane gas (HD-5).		\$114
---	---------	---	--	-------

**PROTECTION SYSTEM**

***Gas valves***

Shipped loose.

F	SOV2401	GAS SHUTOFF VALVE . . . . . 0 TECHNICAL: Energized to run. Maximum gas pressure 25 psi. 38.1 mm (1.5 in) pipe size. REQUIRES: NA ENGINE		\$456
F	SOV2403	GAS SHUTOFF VALVE . . . . . 0 TECHNICAL: Energized to run. Maximum gas pressure 40 psi 50.8 mm (2.0 in) pipe size.		\$562

**GENERAL**

***Tool set***

Tool set. Contains basic tools for regular maintenance; such as wrenches, grease gun, feeler gauges, etc. For a complete breakdown, refer to the Tool Guide for Caterpillar Dealers. Order 9S-7977. AVAILABLE ONLY FROM PARTS DISTRIBUTION.

***Digital diagnostic tool***

Required to set engine timing on EIS engine. Requires service program module NEXG4511 to make operational. Order 7X-1400 and NEXG4511. AVAILABLE ONLY FROM PARTS DISTRIBUTION.

**LITERATURE**

***Optional Literature - Other Languages than English***

Includes Operation and Maintenance Instruction Book, Parts Book (English only) and other miscellaneous forms. These groups remove the English literature that is included in the engine reference numbers. One group shipped free of charge with each engine.

F	LITDUTO	DUTCH LITERATURE. . . . . 0		NC
FH	LITFREO	FRENCH LITERATURE. . . . . 0		NC
FH	LITGERO	GERMAN LITERATURE. . . . . 0		NC
F	LITITAO	ITALIAN LITERATURE. . . . . 0		NC
FH	LITJAPO	JAPANESE LITERATURE. . . . . 0		NC



USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
-----	---------	----------------------	-----------------	-----------------------

**LITERATURE (CONT.)**

*Optional Literature - Other Languages than English (Cont.)*

H	LITPORO	PORTUGUESE LITERATURE . . . . .	0	NC
FH	LITSPA0	SPANISH LITERATURE. . . . .	0	NC

**Extra Literature - English and Other Languages**

Shipped loose. If English is specified, includes:  
 1. Operation and maintenance instruction book on paper only.  
 2. Parts book on CD.  
 3. Miscellaneous forms relative to model on paper only.

If other than language specified, includes:  
 1. Operation and Maintenance instruction book on paper in specified language.  
 2. Parts book on CD in English with index in multiple languages.  
 3. Miscellaneous forms relative to model on paper in English only.

Note: For paper copies of parts book, reference paper selection below:

FH	LITENGE	EXTRA LITERATURE - ENGLISH. . . . .	0	\$132 NET
F	LITDUTE	EXTRA LITERATURE - DUTCH. . . . .	0	\$132 NET
FH	LITFREE	EXTRA LITERATURE - FRENCH. . . . .	0	\$132 NET
FH	LITGERE	EXTRA LITERATURE - GERMAN. . . . .	0	\$132 NET
F	LITITAE	EXTRA LITERATURE - ITALIAN. . . . .	0	\$132 NET
FH	LITJAPE	EXTRA LITERATURE - JAPANESE. . . . .	0	\$132 NET
H	LITPORE	EXTRA LITERATURE - PORTUGUESE. . . . .	0	\$132 NET
FH	LITSPA0	EXTRA LITERATURE - SPANISH. . . . .	0	\$132 NET

**DECALS**

*Decals*

FH	DECARAB	ARABIC DECALS. . . . .	0	NC
FH	DECDANI	DANISH DECALS . . . . .	0	NC
FH	DECDUTC	DUTCH DECALS . . . . .	0	NC
FH	DECFREN	FRENCH DECALS. . . . .	0	NC
FH	DECGERM	GERMAN DECALS. . . . .	0	NC
FH	DECGREE	GREEK DECALS. . . . .	0	NC

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
-----	---------	----------------------	-----------------	-----------------------

**DECALS (CONT.)**

*Decals (Cont.)*

FH	DECITAL	ITALIAN DECALS . . . . .	0	NC
FH	DECPORT	PORTUGUESE DECALS . . . . .	0	NC
FH	DECRUSS	RUSSIAN DECALS . . . . .	0	NC
FH	DECSPAN	SPANISH DECALS . . . . .	0	NC
FH	DECSWED	SWEDISH DECALS . . . . .	0	NC

**PAINTS**

*Special Paint*

FH	SPECPNT	SPECIAL PAINT . . . . . Colors (other than Caterpillar yellow) or high performance paints.	0	\$139 NET
----	---------	---	---	-----------

**INSPECTIONS**

*Inspections*

NOTE: Caterpillar miscellaneous handling charges for customer requested inspection by a private agency for inspection of engines, generators, and miscellaneous material. Includes visual inspection before boxing. No special test involved. Import license number must be supplied to factory prior to inspection.

FH	MISCHC1	SGS INSPECTION . . . . . S.G.S. inspection covers all contents of a given order.	0	\$432 NET
FH	MISCHC2	MISCELLANEOUS INSPECTION . . . . . All other inspection agencies. Specify agency name, address, contact and phone number.	0	\$432 NET

*Torsional Vibration Analysis*

Generator set analysis by Caterpillar.

FH	TVATRS2	GEN SET TORS VIB ANALYSIS . . . . . Provides a torsional report for a custom generator powered by a Caterpillar engine. Report includes natural frequency calculations, mode shapes, vibratory amplitudes and stressed for both engine and generator. Coupling vibration levels are included for two-bearing gensets. The following technical information is needed to perform the TVA:  Generator mass-elastic data. This includes the inertia and torsional stiffness. Provide complete coupling part number and catalog reference sheets if available. Power demand and operating speed.  Mass-elastic data or dimensional drawings for any equipment driven from the front of the engine crankshaft.	0	\$1,047 NET
----	---------	---	---	-------------

USE	REF NO.	OPTIONAL ATTACHMENTS	Ship Weight lbs	List Price At Factory
-----	---------	----------------------	-----------------	-----------------------

**PACKING**

*Shipping Protection*

FH	SWPENG1	SHRINK WRAP PROTECTION . . . . .	0	\$151 NET
FH	EXB0023	BOX FOR EXPORT . . . . .	0	\$752 NET
FH	EXP0003	PACK FOR AIR FREIGHT . . . . . Engines or Miscellaneous parts and attachments -- all models.	0	NC
FH	EXP0004	SPEC MARKINGS ON EXPORT BOXING . . . . . REQUIRES: Dealer input as to special markings. ONLY FOR USE WITH: Engine only or Engine with Generator and/or radiator.	0	\$150 NET
FH	DPX0002	DOMESTIC PACK FOR EXPORT . . . . . Does not include any packing. Only adds markings for export shipment. ONLY FOR USE WITH: Engines or miscellaneous parts and attachments (all models on rails or requiring skids).	0	NC
FH	DPX0001	DOMESTIC PACK-EXPORT CONTAINER. . . . . ONLY FOR USE WITH: Engines not boxed.	0	NC

NOTE: CONTAINER SHIPMENTS - Charge per container will be included in freight forwarding invoice.  
 40 ft. open top container -- \$675.  
 40 ft. enclosed container -- \$540.  
 20 ft. open top container -- \$450.  
 20 ft. enclosed container -- \$360.

*Aid Emblem*

FH	AIDEMB	US AID EMBLEM . . . . . Provides emblem to indicate Agency for International Development (AID) financing is involved. AID provides economic assistance to advance U.S. economic and political interests in countries located in Africa, Asia, Latin America, Central and Eastern Europe, and the New Independent States of the former Soviet Union. Only available for U.S. built products. Requires one emblem for each side of engine.	0	NC
----	--------	---	---	----