

The Caterpillar G3600 series has powered compression and power generation operations across Venezuela's Orinoco Belt for over two decades. As Venezuela's oil infrastructure re-enters full operational mode, the availability of reliable, overhauled G3600 units and OEM-specification parts has become a critical bottleneck for operators at Petropiar, Petromonagas, Petroboscán, and across Monagas state.

Planterra Construction provides direct access to rebuilt G3600 series engines and critical components — sourced, overhauled, and documented in the United States, and delivered to Venezuelan field locations through our established in-country logistics network. Our technical partner brings 30+ years of hands-on G3600 experience specifically in Venezuelan Orinoco Belt conditions.

G3600 Series — Model Specifications & Orinoco Belt Applications

Model	Config	Max Power (bhp / bkW)	Speed (rpm)	Primary Application	Orinoco Belt Use
G3608	8-cyl	2,750 / 2,051	1,000	Gas compression, power generation	Gathering stations, field power supply
G3612	12-cyl	4,125 / 3,076	1,000	Central compression, gas processing	Boquerón, Morichal compressor stations
G3616	16-cyl	5,500 / 4,101	1,000	Large-scale compression, upgrader power	Petropiar upgrader, Petroindependencia

All three models operate at 1,000 rpm with lean-burn combustion design, delivering consistently high bhp output in high-temperature, high-humidity tropical field conditions characteristic of Anzoátegui and Monagas states. ADEM™4 electronic control modules provide diagnostic capability and remote monitoring integration.

Why G3600 Availability Is the Bottleneck Right Now

Venezuela's Orinoco Belt upgraders and compression stations were built around the G3600 platform in the late 1990s and early 2000s. After more than a decade of constrained maintenance budgets, import restrictions, and parts shortages, a significant portion of the installed G3600 fleet is either degraded, partially operational, or awaiting overhaul. The scale of this gap is substantial:

- Petropiar upgrader operates multiple G3616 units for compression and power
- Petromonagas and Petrocedeño facilities run G3612/G3616 compression trains
- Morichal gathering stations rely on G3608/G3612 for field gas compression
- Boquerón and surrounding Monagas fields have significant installed G3600 base
- Years of deferred maintenance have left many units below design capacity
- Venezuelan import restrictions created chronic parts and consumables shortages
- Experienced G3600 technicians represent <30% of pre-2014 workforce levels
- No domestic Cat rebuild capability currently operating at scale in Venezuela

The Opportunity Window

- US Energy Secretary Chris Wright visited Petropiar in March 2026, committing \$100M+ in immediate investment — with a stated goal of doubling output within 18 months.
- Chevron's active JV license specifically authorizes equipment imports for operational restoration — G3600 engines and parts qualify directly under current OFAC general license.
- Companies that establish reliable US-to-Venezuela equipment supply relationships in 2026 will hold a structural advantage as production ramps over the next 3–5 years.

What Planterra Provides

Engine Supply

- Rebuilt G3608, G3612, and G3616 units available from US inventory
- Full top-end and major overhaul to Cat factory specifications
- Load-tested and performance-verified before shipment
- Complete documentation: rebuild records, test data, parts manifest
- New-surplus and low-hour used units sourced on request
- Short lead times — typically 4–8 weeks from order to Venezuela delivery
- Flexible commercial structures: outright sale, consignment, or supply agreement
- Pricing in USD with transparent landed-cost breakdown

Parts & Components

- Pistons, liners, rings, and connecting rod bearings
- Cylinder heads and valve train components
- ADEM™4 control modules and sensor packages
- Turbocharger assemblies and intercooler cores
- Crankshaft bearings and main bearing sets
- Fuel system components and injector assemblies
- Cooling system components and heat exchangers
- Gasket and seal kits — full engine sets available

Technical Services

- In-field overhaul and major maintenance support
- Diagnostic assessment of existing installed fleet
- ADEM™4 programming and troubleshooting
- Commissioning support for rebuilt or replacement units
- Operator and maintenance technician training
- Ongoing technical advisory for fleet management

Our Technical Partnership — 30 Years of G3600 Field Experience

Planterra's engine capability is anchored by a technical partnership with a US-based specialist with direct operational history on G3600 series engines in Venezuelan oil fields. This is not a brokerage relationship — our partner has physically operated, maintained, and overhauled these exact units in the Orinoco Belt environment:

30+ Years G3600 Experience	Our technical partner has operated and overhauled G3600 series engines in the Venezuelan Orinoco Belt — including Morichal/Maurichard and Boquerón fields.
Cat-Certified Overhaul Capability	Full top-end and major overhaul capability to Cat factory standards. Engine rebuilds completed in the US, tested before shipment to Venezuela.
Orinoco Belt Field Knowledge	Direct operational history at Petropiar, Petromonagas, and Monagas state compression facilities. We know the specific units, operating conditions, and failure patterns in these fields.
US-to-Venezuela Supply Chain	Planterra manages the full pipeline: sourcing, rebuild, export documentation, OFAC compliance review, customs clearance, and in-field delivery.

Delivery Process — US Source to Venezuelan Field

01	Assessment & Sourcing	Client provides engine model, serial if available, operational hours, and known fault history. Planterra identifies rebuilt or new-surplus unit from US inventory within 48–72 hours.
02	Rebuild & Verification	Engine undergoes full inspection and overhaul to Cat specifications at our US facility. Load-test and performance verification prior to release. Full documentation package provided.
03	Compliance & Export	Planterra manages OFAC compliance review, EAR export classification, commercial invoice, packing list, and end-user certification for Venezuela delivery.
04	In-Country Delivery	Customs clearance coordination through José Terminal or Maturín logistics hub. Final-mile transport to field location. Optional on-site technical support and commissioning available.

Regulatory & Compliance Framework

All Planterra equipment transactions to Venezuela are structured in compliance with applicable US export regulations and OFAC licensing requirements. Chevron's current OFAC general license specifically authorizes the import of equipment and materials necessary for the operation of its Venezuelan joint ventures, including Petropiar and Petroboscán. Planterra's team reviews all transactions against current license conditions and coordinates with clients' compliance teams as required.

- OFAC General License compliance review on all transactions
- EAR export classification for engine and parts shipments
- End-user certification and documentation package
- Commercial invoice and customs documentation for Venezuela import
- Coordination with client compliance and legal teams
- Full audit trail maintained for all transactions

Ready to discuss your G3600 requirements?

Whether you need a rebuilt engine on short notice, an overhaul for a unit already in-field, or a long-term parts supply arrangement — Planterra is your direct channel from US inventory to Venezuelan operations.

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