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Left side of the engine
(1) Turn-based reverse
(2) Engine pressure regulator



WARNING

Hot oil and hot components can cause personal injury. Do not allow hot oil or hot components to contact the skin.



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(1) Turn for the turn-based reverse
(2) Turn for the turn-based reverse
(3) Turn for the turn-based reverse

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting, and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, N6100000, "Oil Cooler Service, Fuel System" or refer to Special Publication, N6100000, "Oil Filter, Fuel System and Fuel System" for parts and supplies available to collect and contain fluids on Cat products.

Dispose of all fluids according to local regulations and directives.

1. Loosen the latch and pull down on the connector to remove the connector.

Note: Removing connector may be difficult while the engine is operating. The connector has negative air pressure while the engine is operating which creates a vacuum.

2. Remove the used filter. Engines oil may be contained in the filter and in the connector. Properly contain all fluids.
3. Remove the O-ring seal on the top and side of the vent stream. Install a new O-ring seal onto the top of the new filter.
4. Remove the O-ring seal from the bottom of the filter. Inspect the used seal for wear and damage. Install an undamaged O-ring seal onto the bottom of the new filter.
5. Dispose of the used filter.
6. Install a new filter. Properly align the connector with the cover and clamp the latch.

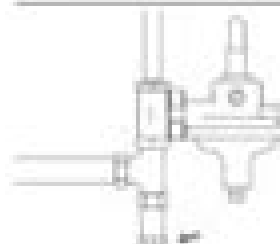
Note: Caterpillar will not be held liable for an engine that does not comply with emissions standards due to modification of the filter bypass filter or due to the use of a filter that is not approved by Caterpillar.

Gas Pressure Regulator Condensation - Drain

SWCS Code: 1070000

To collect condensation, drip legs should be installed on the following locations:

- Supply line for the gas pressure regulator
- Exhaust line for the gas pressure regulator
- Supply line for the gas shutoff valve



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Cap on the drip leg for the gas supply line to the gas pressure regulator.

1. Close the main gas supply valve.
2. Remove the caps from the drip legs.
3. Allow the moisture to drain into a suitable container. Inspect the drip legs for debris. Clean the drip legs, if necessary.
4. Clean the caps. Install the caps.
5. Open the main gas supply valve.

Generator - Dry

SWCS Code: 1070000

NOTICE

Do not operate the generator if the windings are wet. If the generator is operated when the windings are wet, damage will occur due to insulation breakdown.



Personal injury or death can result from improper troubleshooting and repair procedures.

The following troubleshooting and repair procedures should only be performed by qualified personnel familiar with this equipment.

Refer to Safety Section, "Generator Isolating for Maintenance" for information regarding the procedure to safely isolate the generator.

When moisture is present or when moisture is suspected in a generator, the generator must be dried before being energized.

If the drying procedure does not restore the insulation resistance to an acceptable value, the winding should be reconstructed.

Drying Methods

The following methods can be used for drying a generator:

- Self-circulating air method
- Oven method
- Controlled current method
- Energize the optional space heaters

NOTICE

Do not allow the winding temperature to exceed 80 °C (196 °F). Temperatures that are greater than 80 °C (196 °F) will damage the winding insulation.

Self-Circulating Air Method

Run the engine and disconnect the generator load. This will help circulate air. Operate the generator space heaters.

Oven Method

Place the entire generator inside a forced air drying oven for four hours at 55 °C (140 °F).

NOTICE

Use a forced air type oven rather than a radiant type oven.

Radiant type ovens can cause localized overheating.

3512c Hd Marine Propulsion Engine Maintenance Manual

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Table of Contents 3512c Hd Marine Propulsion Engine Maintenance Manual

1. Understanding the eBook 3512c Hd Marine Propulsion Engine Maintenance Manual
 - The Rise of Digital Reading 3512c Hd Marine Propulsion Engine Maintenance Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying 3512c Hd Marine Propulsion Engine Maintenance Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 3512c Hd Marine Propulsion Engine Maintenance Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from 3512c Hd Marine Propulsion Engine Maintenance Manual

- Personalized Recommendations
- 3512c Hd Marine Propulsion Engine Maintenance Manual User Reviews and Ratings
- 3512c Hd Marine Propulsion Engine Maintenance Manual and Bestseller Lists
- 5. Accessing 3512c Hd Marine Propulsion Engine Maintenance Manual Free and Paid eBooks
 - 3512c Hd Marine Propulsion Engine Maintenance Manual Public Domain eBooks
 - 3512c Hd Marine Propulsion Engine Maintenance Manual eBook Subscription Services
 - 3512c Hd Marine Propulsion Engine Maintenance Manual Budget-Friendly Options
- 6. Navigating 3512c Hd Marine Propulsion Engine Maintenance Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - 3512c Hd Marine Propulsion Engine Maintenance Manual Compatibility with Devices
 - 3512c Hd Marine Propulsion Engine Maintenance Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 3512c Hd Marine Propulsion Engine Maintenance Manual
 - Highlighting and Note-Taking 3512c Hd Marine Propulsion Engine Maintenance Manual
 - Interactive Elements 3512c Hd Marine Propulsion Engine Maintenance Manual
- 8. Staying Engaged with 3512c Hd Marine Propulsion Engine Maintenance Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 3512c Hd Marine Propulsion Engine Maintenance Manual
- 9. Balancing eBooks and Physical Books 3512c Hd Marine Propulsion Engine Maintenance Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 3512c Hd Marine Propulsion Engine Maintenance Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 3512c Hd Marine Propulsion Engine Maintenance Manual
 - Setting Reading Goals 3512c Hd Marine Propulsion Engine Maintenance Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 3512c Hd Marine Propulsion Engine Maintenance Manual

- Fact-Checking eBook Content of 3512c Hd Marine Propulsion Engine Maintenance Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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