

Cylinder Management for Technicians

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Topics

- Filters, Filters, Filters
- Using the Toolbar
- How to add a Cylinder
 - To Scan or not to Scan
- Should I use Tile View or Grid View?
- In Service vs Replace Cylinder
- What do all the colors mean?

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Cylinder Filters

- In Service
 - Displays Cylinders that are linked to a Phase
- In Inventory
 - Displays Cylinders that are not linked to a Phase
- Added Recently
 - Display Cylinders added in the Last 30 Days

Cylinder Filters

In Service
 In Inventory
 Added Recently
 Compatible with Selected Phase
 Gas Type: CO ▾

Inactive: Exclude Include Only
Expired: Exclude Include Only
Third-Party: Exclude Include Only

Reset OK Cancel

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Cylinder Filters

- Compatible w/Selected Phase
 - Displays Cylinders capable of being linked to the selected Phase
- Gas Type
 - Filter Cylinders that contain the selected gas type
- Inactive
 - Choose to exclude, include, or only display Deactivated cylinders

Cylinder Filters

In Service
 In Inventory
 Added Recently
 Compatible with Selected Phase
 Gas Type: CO ▾

Inactive: Exclude Include Only
Expired: Exclude Include Only
Third-Party: Exclude Include Only

Reset OK Cancel

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Cylinder Filters

- Expired
 - Choose to exclude, include, or only display Expired cylinders
- Third-Party
 - Choose to exclude, include, or only display Third-Party cylinders

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Phase Filters

- Compatible w/selected Cylinder
 - Displays Phases capable of being linked to the selected Cylinder
- Linked to selected Cylinder
 - Display Phases linked to the selected Cylinder
- Hide quarterly Calibrations
 - Hide CGAs or Linearity Phases
- Show hidden Phases
 - Display Phases that have been hidden

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Phase Filters

- Data Controller
 - Filter Phases for a specific Controller
- Source
 - Filter Phases for a specific Source
- Calibration
 - Filter Phases for a specific Calibration



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Using the Toolbar

Callouts in the image:

- Add Cylinder
- Sort Cylinder List
- Reset Cylinder Filters
- Search for a Cylinder
- Import Cylinder
- Cylinder Filters
- Choose details to display for Cylinders



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Using the Toolbar

The screenshot shows a toolbar for the 'Phases' section. The toolbar contains several icons: a funnel (Phase Filters), a padlock (Lock/Unlock Mode), a gear (Settings), and a grid icon (Switch to Tile/Grid View). A 'Reset Phase Filters' callout points to the funnel icon. A 'Phase Filters' callout points to the funnel icon. A 'Lock/Unlock Mode (for admins)' callout points to the padlock icon. A 'Switch to Tile/Grid View' callout points to the grid icon. A 'Choose details to display for Phases' callout points to a 'Phase Detail Level' dialog box. The dialog box has a 'Show:' section with two checked options: 'Phase Ranges' and 'Cylinder Details'. An 'OK' button is at the bottom of the dialog. The 'AUSTIN' logo is at the bottom center, and a small circle with the number '9' is at the bottom right.

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Add a Cylinder

The screenshot shows the 'Edit Cylinder' form. The form has several fields and buttons. Callouts provide instructions for each:

- 'Capital Letters, Numbers, hyphens, and periods (required field)' points to the 'Cylinder ID' field (AA23456).
- 'Enter a descriptive Cylinder Name (required field)' points to the 'Name' field (LOSPAN).
- 'Use Calendar button to open a calendar to select the date' points to the 'Expiration Date' field (06/27/2020).
- 'Enable Alarm and configure warning days to start alarming' points to the 'Alarm' field (Enabled, Warning Days: 30).
- 'Use this field to attach documents' points to the 'Document' field (SV License.txt).
- 'Select the Vendor from the drop-down list or add a new vendor' points to the 'Vendor' field ((A12018) Shaun and Jack Ge...).
- 'Use these fields to configure the Order, Receive, and Ship dates' points to the 'Order Date' (10/03/2019), 'Receive Date' (10/09/2019), and 'Ship Date' (10/16/2019) fields.
- 'Specify a Location or add a comment' points to the 'Location/Comment' field (UNIT1 CEM Shelter).
- 'Specify if the cylinder was a tester's cylinder (ex. RATA)' points to the 'Third-Party' checkbox.
- 'Use this button to assign the PGVP Gas Combinations' points to the 'PGVP Gas Combination' field (BALN,CO2,NO,NOX,SO2).

 The 'AUSTIN' logo is at the bottom center, and a small circle with the number '10' is at the bottom right.

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Add a Cylinder

Gas	Gas Value	Unit
<input type="checkbox"/> CO		
<input checked="" type="checkbox"/> CO2	20.123	PERCENT
<input type="checkbox"/> HG/CONV		
<input type="checkbox"/> HGT		
<input type="checkbox"/> NO		
<input checked="" type="checkbox"/> NOx	85.4657	PPM
<input checked="" type="checkbox"/> SO2	82.1564	PPM

Select the Gases certified in the Cylinder

Use this drop-down to specify the units

Cylinder Gases are configured in StackStudio

Units are configured in StackStudio

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Add a Cylinder

Select PGVP Gas Combination

Gas Combinations:

- BALN,CO,CO2,NOX,SO2
- BALN,CO2,NOX,SO2
- BALN,NOX,O2,SO2
- BALN,NOX,SO2
- BALN,NOX,SO3
- CO,CO2,NO,NOX,BALN
- CO,NO,NOX,BALN
- NO,NOX,BALN

Existing Gas Combinations can be selected

Select Customize to create a new Gas Combinations

Cylinder Gas Codes:

- BALN
- CO
- N2,BALN
- CO2
- NO
- NOX
- SO2

Select Customize to add Gas Codes

Edit Gas Codes

- BALN
- CO
- CO2
- N2,BALN
- NO
- NOX
- SO2

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Scan a Cylinder

The screenshot shows the 'Import Cylinders' dialog box with the following elements and annotations:

- Expired Cylinder, but will be imported:** Points to the 'Expired' tile (AA23) with an expiration date of 9/20/2019.
- Cylinder will NOT be imported:** Points to the 'Error' tile.
- Click to view information:** Points to the 'Webinar02' tile, with a sub-menu showing 'Cylinder Information' and 'Show Import Information'.
- Cylinders ready to be imported:** Points to the 'Webinar04', 'Webinar03', and 'Webinar01' tiles.
- Duplicate:** Points to the 'CC207580' tile.

ID	Status	CO2	NOx	SO2	Exp. Date
Error	Error	-	-	-	-
AA23	Expired	178.4	36.12	-	9/20/2019
CC207580	Duplicate	178.4	91.12	-	9/20/2024
Webinar04	Ready	18.409	42.12	1593.4	9/20/2024
Webinar03	Ready	18.409	492.12	1593.4	9/20/2024
Webinar02	Ready	18.409	192.12	1593.4	9/20/2024
Webinar01	Ready	18.409	493.12	1893.4	9/20/2024
Webinar	Ready	18.409	492.12	1593.4	9/20/2024
AA23456	Ready	178.4	86.12	-	9/20/2024
CC207580	Ready	178.4	91.12	-	9/20/2024

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Using Tile View

The screenshot shows the 'Cylinders' and 'Phases' tile view with the following elements and annotations:

- Selected Cylinder:** Points to the 'AA244255' tile (LOW phase, Exp: 3/10/2022).
- Compatible Phase w/existing Cylinder:** Points to the 'AA249485' tile (LOW phase, Exp: 4/3/2022).
- Compatible Phase w/o a Cylinder:** Points to the 'Click to Link Selected Cylinder' tile.

ID	Phase	CO2	NOx	SO2	Exp. Date
AA243828	HISPAN	19.46	528.9	1685.9	10/4/2022
AA244255	LOW	20.246	26.325	-	3/10/2022
AA244258	HIGH	92.79	96.008	-	8/5/2022
AA244940	HISPAN	18.96	495.6	1595.9	7/9/2020
AA245148	MID	56.286	53.04	-	11/7/2022
AA24725046	HILOW	453.96	4.6379	342	9/3/2022
AA247332	MID	56.286	54.06	-	12/14/2022
AA247620	LOSPAN	510.996	19.57	83.694	8/11/2022

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Using Tile View

Replace Cylinder

New Cylinder ID: AA244255

New Cylinder Name: LOW

The cylinder you're replacing is linked to one or more phases.

Deactivate old cylinder?

Replace the target cylinder on:

All phases

LOG01 - GASLIN01: LOW

- Phases with existing Cylinders will notify the user with a Replace Cylinder dialogue
- Option to deactivate the old cylinder
- Locked Mode only allows the All Phases option



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Using Grid View

Links	Cylinder ID	Name	Status	Third Party	CO2	NOx	NO	SO2	HGT
0	AA23456	LOSPAN	In Inventory	No	20.123	85.4657		82.1564	
0	AA243554	MID	In Inventory	No		54.162		51	
0	AA243824	MID	In Inventory	No		56.286		51	
2	AA243826	HISPAN	In Service	No	19.46	528.9		1685.9	
0	AA244255	LOW	In Inventory	No		20.246		26.325	
0	AA244258	HIGH	In Inventory	No		92.79		96.008	
0	AA244300	HILOW	In Inventory	No	4.6379	157.3		364	
1	AA244726	MID	In Service	No		57.348		51	

Phases

LOG01 - GASLIN01

▶ HIGH AA244871

LOG02 - LINLO02

▶ HIGH Link Selected Cylinder

Compatible Phase w/o a Cylinder

Selected Cylinder

Compatible Phase w/existing Cylinder

Expand/Collapse Phases

Compatible Phase w/o a Cylinder



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Using Tile View

- Phases with existing Cylinders will notify the user with a Replace Cylinder dialogue
- Option to deactivate the old cylinder
- Locked Mode only allows the All Phases option

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Using Grid View

- Right-click a column header to select additional display options
 - Sorting
 - Hide/Show Columns
 - Filter Data
- Move columns by clicking and dragging

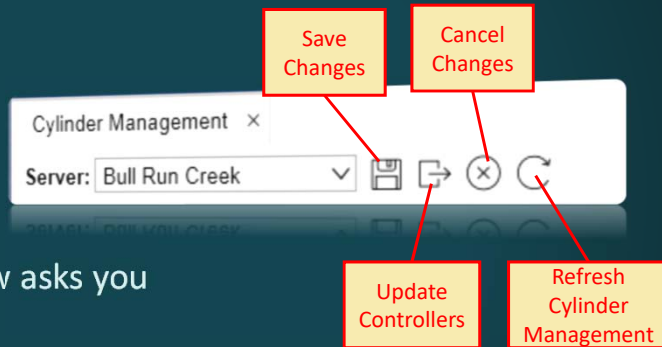
Links	Cylinder ID	Name	Status	Third Party	CO2	NOx	NO	SO2	HGT
0	AA23456	LOSPAN	In Inventory	No	20.12				
0	AA243554	MID	In Inventory	No					
0	AA243824	MID	In Inventory	No					
2	AA243826	HISPAN	In Service	No	19.4				
0	AA244255	LOW	In Inventory	No					
0	AA244258	HIGH	In Inventory	No					
0	AA244300	HILOW	In Inventory	No	4.6375	197.3		364	
1	AA244726	MID	In Service	No		57.348		51	
2	AA244874	LOSPAN	In Service	No	18.27	85.81		81.604	

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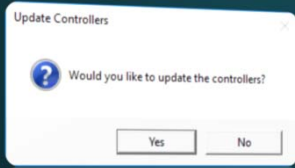
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Save and Update Controllers

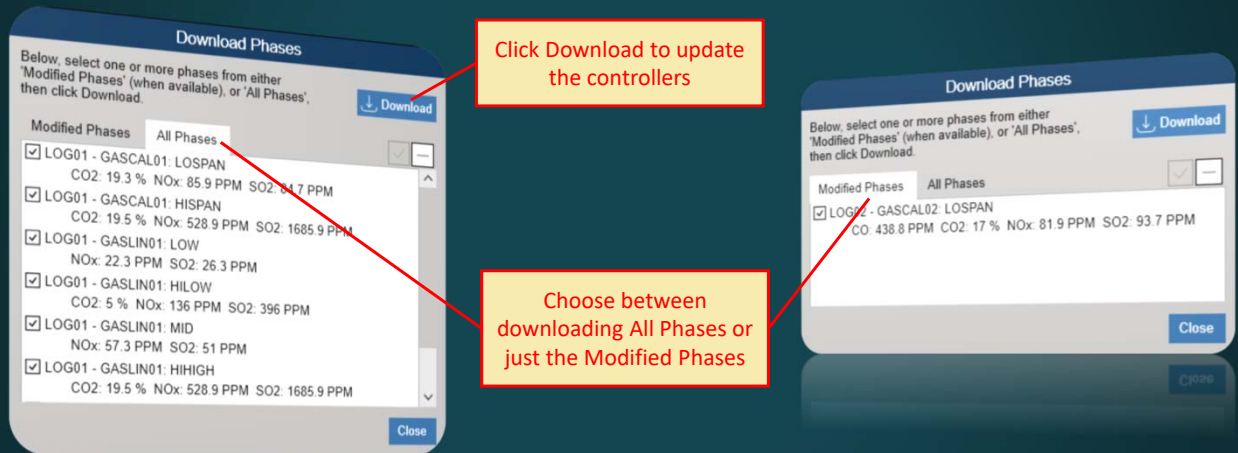


- Clicking “Save Changes” now asks you to update the controllers



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Save and Update Controllers



Click Download to update the controllers

Choose between downloading All Phases or just the Modified Phases



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Put In Service vs Replace Cylinder

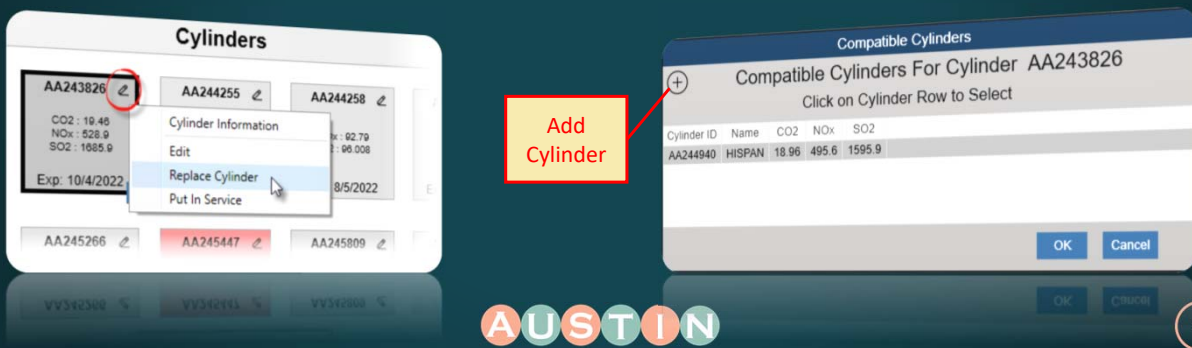
- Put In Service
 - Located under the Edit Pencil or Right-click menu
 - Only displays compatible Phases with existing linked Cylinders



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Put In Service vs Replace Cylinder


- Replace Cylinder
 - Located under the Edit Pencil or Right-click menu for Cylinders currently in service
 - Only displays compatible Cylinders that are NOT in service
 - Option to add a new cylinder



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What do all the colors mean?

- Numbered Blue Box
 - Indicates how many phases are linked to a cylinder


AA243826 

CO2 : 19.46
NOx : 528.9
SO2 : 1685.9

Exp: 10/4/2022

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Linked Phases
LOG01 - GASCAL01: HISPAN
LOG01 - GASLIN01: HIHIGH
LOG02 - GASCAL02: HISPAN
LOG02 - LINHIQ2: HIGH

AA245447 

CO2 : 10.12
NOx : 343.6
SO2 : 915.9

Exp: 6/3/2019

- Red Tile – Requires Attention
 - Indicates that the Cylinder has expired
 - Cannot be put in service


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What do all the colors mean?

- Yellow Tile – Warning, requires attention soon
 - Indicates that the cylinder is nearing its expiration date

EB0084586 

NOx : 54
SO2 : 56

Exp: 10/25/2019

AA24725046.. 

CO : 453.96
CO2 : 4.6379
NOx : 179.4
SO2 : 342

Exp: 9/3/2022

LOW

Click to Link
Selected Cylinder

- Green Tile – Indicates compatibility
 - A Cylinder and a Phase is compatible
 - Depends upon selecting a Cylinder or a Phase

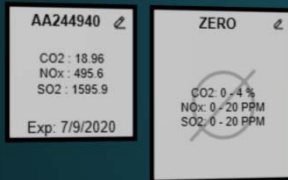
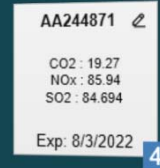
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What do all the colors mean?

- Light Grey Tile – Normal
 - Indicates that the cylinder is in a normal state and not close to expiring



- Dark Grey Tile w/Black Outline – Indicates item is selected
 - A Cylinder or a Phase has been selected by the user



Questions?

