



# pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF MINE SAFETY

67a

September 21, 2010

Arnemann Grender  
Johnson Industries, Inc.  
101 Pine Fork  
Pikeville, Kentucky 41501

Dear Mr. Grender:

Re: Temporary Approval of the ECS AZ 26 diesel oxidation catalyst to use alternatively in a Johnson Industries Supersteer with a Deutz BF4L2011 74 HP (derated) diesel engine

This is in response to Mr. Gene Davis' letter dated September 15, 2010 requesting temporary approval of the AZ-26 Catalyst for underground use prior to the next scheduled TAC meeting on October 13, 2010.

On September 13, 2010 the TAC and DEP reviewed the emission test data obtained during an evaluation period and also conducted emission tests on that day to evaluate the AZ-26 catalyst.

Temporary approval is granted for this equipment to be used prior to the next scheduled TAC meeting with the understanding that the enclosed General Specification Sheets is strictly adhered to.

It is the responsibility of the mine operator to ensure that the final equipment approval tags are installed on this equipment when they are issued after the October 13, 2010 TAC Meeting.

Sincerely,

Joseph A. Scaffoni  
Director  
Bureau of Mine Safety

Enclosure(s)

cc: Bowersox  
Borchick  
Gene Davis, Rosebud Mining

*MM*  
JAS:MMC:cd

bcc: Bookshar  
Martin  
McCaffrey  
Antoon  
Gaida  
Original/Dunn

\\epmsuns03\bms\$\AdvisoryCommittee\TAC - DIESEL LETTERS BY YEAR\2010\ - Temporary Approval Letter for AZ-26 Catalyst for Johnson Industries.doc

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# General Specification Sheet

## Johnson Super Steer PC

### I. Engine

<b>Manufacturer</b>	<b>Deutz</b>	<b>High Idle (RPM)</b>	<b>3100</b>
<b>Manufacturer Address</b>	<b>3883 Steve Reynolds Blvd. Norcross, Ga. 30093</b>	<b>Particulate Index (PI)</b>	<b>2500 cfm</b>
<b>Model Number</b>	<b>BF4L20II</b>	<b>Gaseous Ventilation Rate (CFM)</b>	<b>6000 cfm</b>
<b>Serial Number</b>	<b>TBD</b>	<b>Raw DPM (gr/hp)</b>	<b>3.7 g/hr</b>
<b>Horse Power</b>	<b>87@ 2800 rpm Derated to 74 hp</b>	<b>MSHA 7E Approval Number</b>	<b>07-ENA040004</b>
<b>Max. dirty Intake Air Restriction (H<sup>2</sup>O)</b>	<b>26" wg</b>	<b>Type of Aspiration</b>	<b>Turbocharged</b>
<b>Max. Allowed Backpressure H<sup>2</sup>O</b>	<b>20" wg</b>	<b>Fuel Delivery System</b>	<b>Mechanical Injection</b>
<b>Turbocharger Boost Pressure</b>	<b>18.5 psi</b>	<b>Low Idle (RPM)</b>	<b>900</b>

ATTACHMENT 2-1

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**II. Filter System**

<b>Manufacturer</b>	<b>Engine Control System</b>
<b>Manufacturer Address</b>	<b>165 Pony Drive Newmarket, Ontario, Canada, L3Y7V1</b>
<b>Model Number</b>	<b>ECS S/9 Silicone Carbide (Sic)</b>
<b>System Type</b>	<b>Non- Catalyzed - Off Board Regeneration</b>
<b>System Composition</b>	<b>Silicone Carbide</b>
<b>Efficiency Rating</b>	<b>87%</b>
<b>Type of Regeneration</b>	<b>Off- board - electrical</b>

**III. Catalyst**

<b>Manufacturer</b>	<b>Engine Control System</b>
<b>Manufacturer Address</b>	<b>165 Pony Drive Newmarket, Ontario, Canada, L3Y7V1</b>
<b>System Name</b>	<b>A-Z Severe Duty</b>
<b>Model Number</b>	<b>AZ 27 or AZ 26</b>