



Pennsylvania Department of Environmental Protection

Fayette County Health Center  
100 New Salem Road, Room 167  
Uniontown, PA 15401  
November 15, 2006

**Bureau of Mine Safety**

724-439-7469  
Fax 724-439-7324

Mr. Jay Rafferty  
Brookville Equipment Corporation  
175 Evans Street  
P.O. Box 130  
Brookville, PA 15825

Re: **ITEM: 25 TON LOCOMOTIVE**  
**MODEL: 25T174D VOLTAGE: 12VDC HP: 174 @ 2200 RPM**  
**APSID NO: 585633**  
**APPROVAL OF BOTE-D 140-06**  
**ENGINE MFG: DAIMLER CHRYSLER MODEL: OM 904 LA**  
**HP: 174 PA VENTILATION RATE: 7,500 CFM BOTE-DEES NO. 137-06**  
**EMISSION SYSTEM TYPE: M30 DST MANAGEMENT SYSTEM**

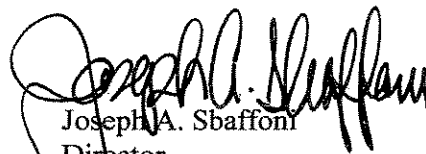
Dear Mr. Rafferty:

We have completed our evaluation of the equipment noted above, and approve its use in all bituminous underground coal mines of Pennsylvania. The equipment meets the legal requirements of the *Pennsylvania Bituminous Coal Mine Act*.

Pennsylvania approval number **BOTE-D 140-06** has been assigned to the equipment. This number must appear conspicuously on the outside of the subject equipment on a 2" x 4" rust-resistant metal plate, or any other Bureau acceptable material. The approval plate should read "Commonwealth of Pennsylvania" and "Approval No. **BOTE-D 140-06**." The plate and lettering should be resistant to removal by abrasion.

If you want to make changes or alterations on this equipment, a written request outlining the proposed changes, together with any related prints or drawings, must be submitted to this office for approval. If you have any questions, please contact me at the above telephone number.

Sincerely,

  
Joseph A. Scaffoni  
Director  
Bureau of Mine Safety



**BROOKVILLE EQUIPMENT CORP.  
MODEL 25T174D  
Diesel 25 Ton Locomotive**

General Specifications of the Diesel-Powered Equipment Package

Engine Manufacturer		Daimler Chrysler			
Engine Model		OM904LA			
Horsepower		174 HP			
Rated Speed		2200 RPM			
Manufacturer's Recommended Exhaust Back-pressure (InH <sub>2</sub> O)		40.8 Inches Water Gauge			
Maximum Exhaust Out Temperature		1166 deg F			
<b>MSHA Engine Approval</b>		<b>MSHA Part 7</b>			
MSHA Certification No.		7E-B098			
Rated Speed		2200 RPM			
Rated Horsepower		174 HP			
Exhaust GAS Flow (SCFM)		1077 CFM			
ISO 8178-1 Average DPM (gr/hr)		8.50 gr/hr			
Average Ambient DPM Level (mg/m <sup>3</sup> )		0.021 mg/m <sup>3</sup>			
MSHA Ventilation Rate (CFM)		7,500 CFM (Part 7)	CFM (Part 32)		
Pa. State Ventilation Rate (CFM)					
<b>Emissions Control System</b>			<b>DST Management System</b>		
Fuel Injection Pump	Make	Bosch			
	P/N	0280746902			
Oxidation Catalyst	Make	Syncat Corp.			
	P/N	M113-210-02			
Heat Exchanger	Make	Dry Systems Technologies			
	P/N	M115-105-01			
DPM Filter	Make	Fleetguard	Model	M 30	
	P/N	M 30	Filter Size	16 x 12 in Diameter	
	Air Rating (CFM)	2100 CFM	Filter Length	20 in	
	Surface Area (in <sup>3</sup> )	42,231 in <sup>3</sup>			
	Efficiency				98.5%
	Recommended Exhaust Back-Pressure				25 Inches Water Gauge