



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. Todd Shultz
Brookville Equipment Corporation
175 Evans Street
P.O. Box 130
Brookville, PA 15825

Re: **ITEM: 9 TON DIESEL LOCOMOTIVE/15-MAN PERSONNEL CARRIER**
MODEL: ULPC SERIAL NO.: 9188-94 HP: 100 @ 2200 RPM
APSID NO: 587084
APPROVAL OF BOTE-D 139-06
ENGINE MFG: DAIMLER CHRYSLER MODEL: OM 904 LA
HP: 100 PA VENTILATION RATE: 4,500 CFM BOTE-DEES NO. 135-06
EMISSION SYSTEM TYPE: M30 DST MANAGEMENT SYSTEM


Dear Mr. Shultz:

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 139-06** 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 139-06**." 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



June 16, 2006

**BROOKVILLE EQUIPMENT CORP.
MODEL ULPC
Diesel 9-Ton Loco / 15-Man Personnel Carrier**

General Specifications of the Diesel-Powered Equipment Package

Engine Manufacturer		Daimler Chrysler			
Engine Model		OM 904 LA			
Horsepower		100 HP			
Rated Speed		2200 RPM			
Manufacturer's Maximum Recommended Exhaust Backpressure (In H ₂ O)		41 Inches Water Gauge			
Maximum Exhaust Out Temperature		302 deg F			
MSHA Engine Approval		MSHA Part 7			
MSHA Certification No.		7E-B098-0 (Part 7)			
Rated Speed		2200 RPM			
Rated Horsepower		100 HP			
Exhaust GAS Flow (SCFM)		318 CFM @ 25 deg C			
ISO 8178-1 Average DPM (gr/hr)		4.14 gr/hr			
Average Ambient DPM Level (mg/m ³)		0.022 mg/m ³			
MSHA Ventilation Rate (CFM)		4,500 CFM (Part 7)	CFM (Part 32)		
Pa. State Ventilation Rate (CFM)					
Emissions Control System			DST Management System		
Fuel Injection Pump	Make	Bosch			
	P/N	0280746902			
Oxidation Catalyst	Make	Syncat Corp.			
	P/N	M113-210-02			
Heat Exchanger	Make	Paas Tech.			
	P/N	M150-301-01			
DPM Filter	Make	Dry Systems Technology	Model	M 30	
	P/N	M 30	Outer Filter Size	16 x 12 in Diameter	
	Air Rating (CFM)	2100 CFM	Inner Filter Size	10 x 6 in Diameter	
	Surface Area (in ³)	42,231 in ³	Filter Length	20 in	
	Efficiency				96%
	Recommended Exhaust Back-Pressure				25 Inches Water Gauge