

# Fleet Analysis for:

## Red River Mining



The following is the average particulate of each vehicle ranked by vehicle type:

Evaluation Date: 4/3/2009

								Baseline Evaluation					Current Evaluation						
Vehicle Number	Vehicle Type	Vehicle Mfr	Vehicle Model	Eng Year	Eng Mfr	Engine Model	Inj.	Date	DPM (%)	trail	Annual DPM (lb)	Annual Fuel Loss (Gal)	Date	DPM (%)	trail	Annual DPM (lb)	Annual Fuel Loss (Gal)	Annual Gallons of Fuel*	
1	05101	Track tractor	Caterpillar	D8R	2004	CAT	3406E	E	3/9/2009	21.4	8.0	989	2,442	4/3/2009	0.0	0.0	0	0	57,000
2	05103	Track tractor	Caterpillar	D8T	2007	CAT	C-15	E	3/9/2009	15.6	4.0	721	1,779	4/3/2009	3.1	0.0	145	357	57,000
2	Evaluations	<b>Totals/Averages</b>								18.5	6.0	1,710	4,222		1.6	0.0	145	357	114,000

### Legend - Engine Combustion Status

Green - Acceptable
Yellow - Early Stage
Red - Advanced Stage

\*Annual Gallons of Fuel are estimated values.

# Red River Mining

4/3/2009



*You Cannot Manage What You Cannot Measure*

<b>Vehicle number</b>	<b>Date</b>	<b>Recommendation:</b>
05101	4/3/2009	No action recommended at this time.
05103	4/3/2009	No action recommended at this time.

# Vehicle # 05101

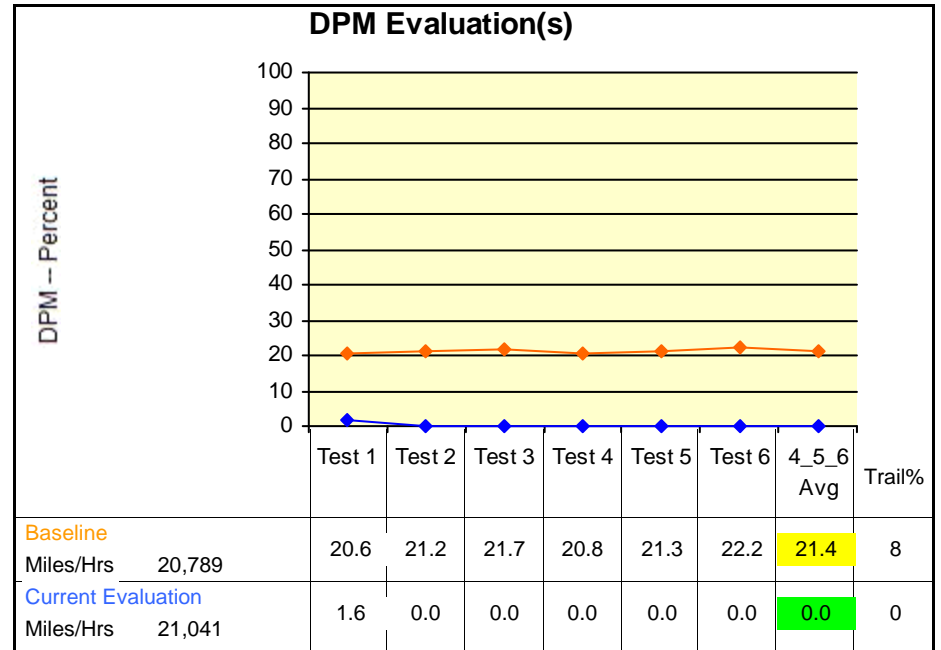
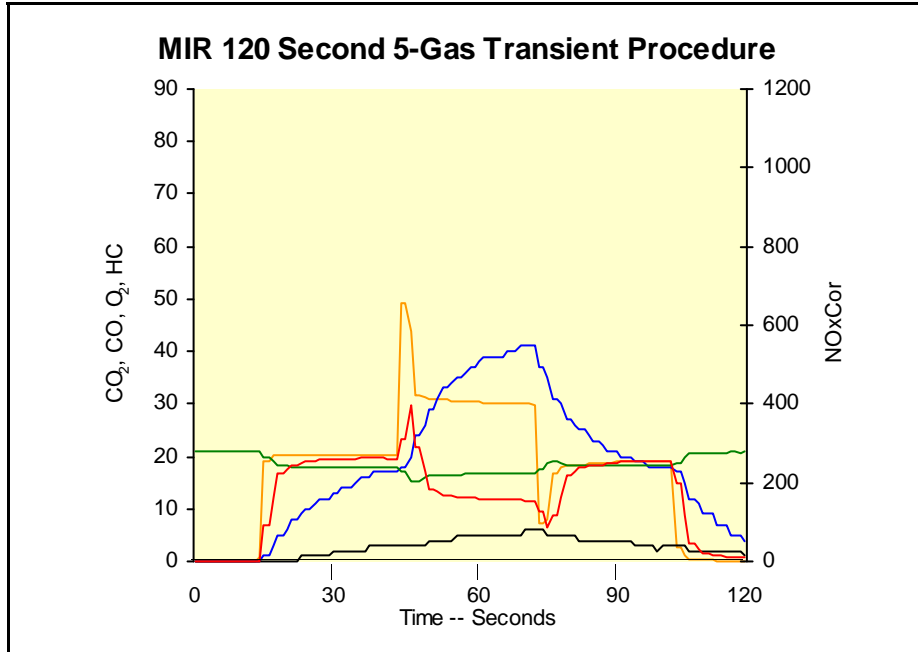
# Red River Mining Evaluation Date: 4/3/2009



Year:	2004	Engine mfr:	Caterpillar
Vehicle type:	Track tractor	Engine model:	3406E
Vehicle model:	D8R	Injection type:	E
Vehicle SN:		Fuel type:	No data

Annual fuel consumption (gal):		57,000
Average DPM Density (%):	<b>Baseline</b>	21.4
Calculated fuel loss (gal):	3/9/2009	2,442
Calculated DPM produced (lbs.):		989
Average DPM Density (%):	<b>Current Evaluation</b>	0.0
Calculated fuel loss (gal):	4/3/2009	0
Calculated DPM produced (lbs.):		0

CO <sub>2</sub> % X 10	HC ppm	O <sub>2</sub> %
CO % X 1000	NO <sub>x</sub> Cor ppm	



### Recommendations:

No action recommended at this time.

# Vehicle # 05103

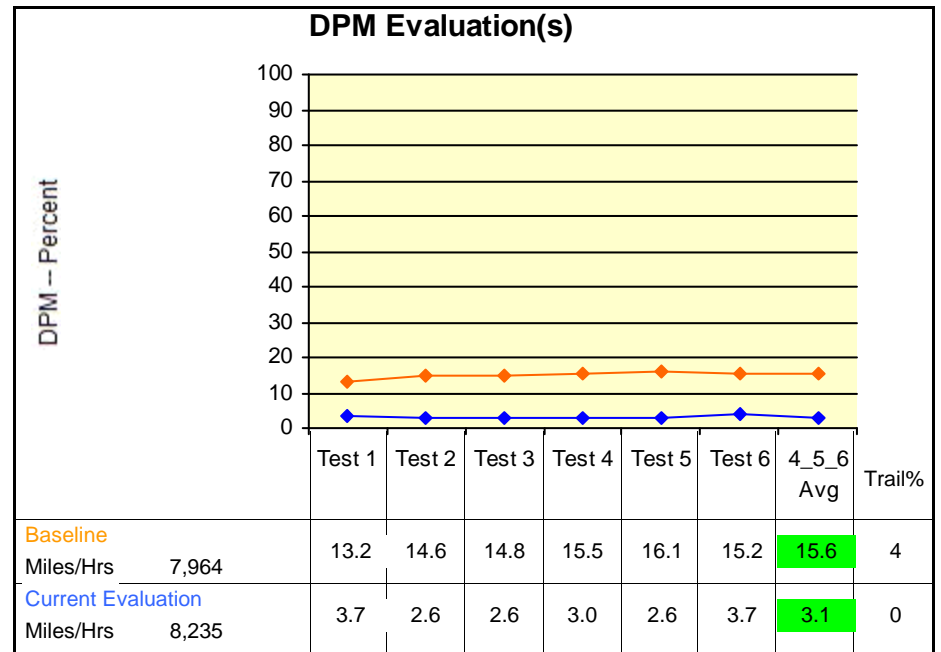
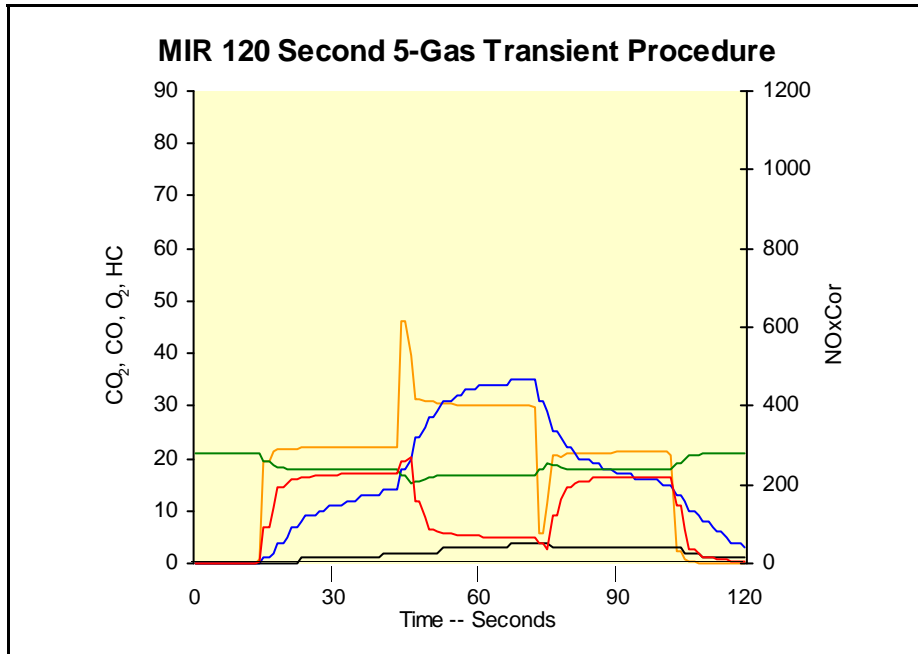
# Red River Mining Evaluation Date: 4/3/2009



Year:	2007	Engine mfr:	Caterpillar
Vehicle type:	Track tractor	Engine model:	C-15
Vehicle model:	D8T	Injection type:	E
Vehicle SN:		Fuel type:	No data

Annual fuel consumption (gal):		57,000
Average DPM Density (%):	<b>Baseline</b>	15.6
Calculated fuel loss (gal):	3/9/2009	1,779
Calculated DPM produced (lbs.):		721
Average DPM Density (%):	<b>Current Evaluation</b>	3.1
Calculated fuel loss (gal):	4/3/2009	357
Calculated DPM produced (lbs.):		145

CO <sub>2</sub> % X 10	HC ppm	O <sub>2</sub> %
CO % X 1000	NO <sub>x</sub> Cor ppm	



## Recommendations:

No action recommended at this time.